

### SERVICE MANUAL

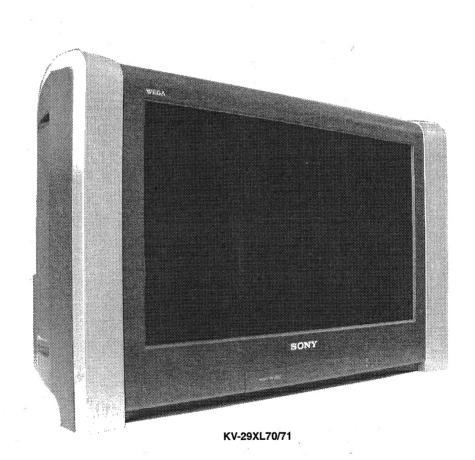
### AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29XL70E	RM-944	ESP	SCC-Q81X-A	KV-29XL71E	RM-934	ESP	SCC-Q81W-A
KV-29XL70K	RM-944	OIRT	SCC-Q82M-A	KV-29XL71K	RM-934	OIRT	SCC-Q82N-A

### **FD** Trinitron



RM-934





RM-944

TRINITRON © COLOR TV

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### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### **ATTENTION**

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

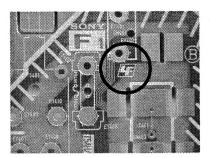
### CAUTION

### Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [ see examples ]. The servicing of these boards requires special precautions to be taken as outlined below.



### example 1



example 2

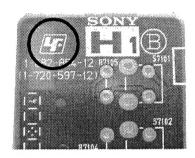


Table 1

Board	Function
А	Video & Audio Processors, Audio Output, Vertical Deflection
С	R,G,B Out
F1	Power Switch/Fuse/SIRCS/Standby LED
Н6	Front AV Input/Headphone and Control Switches
VM	Velocity Modulation

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers:

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to http://www.sony-training.com

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
E	. B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03 UHF: E21-E69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
К	B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03 UHF: E21-E69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

	Sound output		
Flat Display FD Trinitron Approx 73 cm (29 inches)	Right and Left speaker	2x20W (Music Power) 2x10W (RMS)	
1	Sub Woofer	1x30W (Music Power) 1x15W (RMS)	
REAR]	General Specifications	3	
Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V	
	Power Consumption	130W	
Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	Approx 771 x 585 x 506mm	
(Monitor Out)	Weight	Approx 48.5kg	
Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Supplied Accessories	RM-934 Remote Commander (1) (KV-29XL71) RM-944 Remote Commander (1) (KV-29XL70) IEC designated R6 battery (2)	
Output Connectors variable for Audio Signals	Other Features	100 Hz picture, Teletext, Smartlink, TV system autodetection, PIP, Dolby Virtual, BBE, Sleep Timer	
FRONT]	Remote Control System : Infrared Control		
stereo mini jack			
phono jacks		3V dc	
phono jacks	Power requirements	2 batteries IEC designation R6 (size AA)	
4 pin DIN	1	(5.22 . 0 .)	
	Approx 73 cm (29 inches)  REAR]  Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)  Inputs for Audio and Video signals. (Inputs for S Video and Audio signals. (Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)  Output Connectors variable for Audio Signals FRONT] stereo mini jack phono jacks	Flat Display FD Trinitron Approx 73 cm (29 inches)  REAR]  Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. Inputs for RGB. Outputs of TV Video and Audio signals. Inputs for RGB. Outputs of TV Video and Audio signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)  Inputs for Audio and Video signals. (Monitor Out)  Weight  Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)  Output Connectors variable for Audio Signals  FRONT]  Stereo mini jack phono jacks  Power Requirements  Dimensions  Dimensions  Other Features  Supplied Accessories  Power requirements  Power requirements	

Model Name	KV-29XL70E	KV-29XL70K	KV-29XL71E	KV-29XL71K
Pal Comb	OFF	OFF	OFF	OFF
PIP	ON	ON	ON	ON
RGB Priority	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Scart 3	ON	ON	ON	ON
Front in (4)	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF
Norm B/G	ON	ON	ON	ON
Norm I	OFF	OFF	OFF	OFF
Norm D/K	ON	ON	ON	ON
Norm AUS	OFF	OFF	OFF	OFF
Norm L	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON
Nicam Stereo	ON	ON	ON	ON

21 19 17 15 13 11 9 7 5 3 1	20   18   16   14   12   10   8   6   4   2
---	---

Pin No	1	2	3	Signal	Signal level
		4	4	-	Standard level : 0.5V rms
1	0	0	0	Audio output B (right)	Output impedence : Less than 1kohm*
2	0	0	0	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal: 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V
			10	Y (S signal)	(-3+10dB)

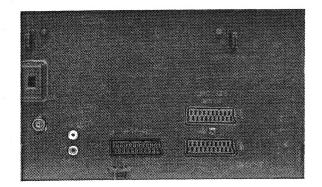
O Connected

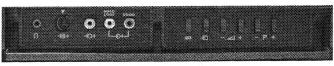
Not Connected (open) \* at 20Hz - 20kHz

### **Rear Connection Panel**

### Front Connection Panel

S-Video socket





	S Video socket pin configuration							
Pin No	Signal	Signal Level						
1	Ground	•						
2	Ground	-						
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB						
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.						

### **AE-6B SELF DIAGNOSTIC SOFTWARE**

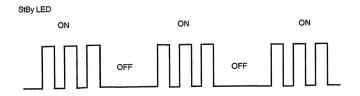
The identification of errors within the AE-6B chassis is triggered in one of two ways: -1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method.

Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

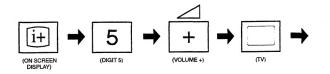
Error Message	LED Code
No error	00
Reserved	01
OCP ( Over Current Protection )	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

### Flash Timing Example: e.g. error number 3



### How to enter into Table 2

- Turn on the main power switch and enter into the stand-by mode
- 2. Press the following sequence of buttons on the Remote Commander.



'TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.

- Press 'MENU' on the remote commander to obtain the Service menu on the screen.
- Using the Remote Commander, Scroll to the 'Error Menu' item using the down arrow key, then press the right arrow key.
- The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15	OCP OVP VSYNC IKR IIC NVM HPROT TUNER SOUNDP - SCANRATE DAC BACKEND DYN CON	(0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
E16	PIP	(0, 255)	Ö
WORKING TIME HOURS MINUTES			14 7

Note: To clear the error count data press '80' on the Remote commander.

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual. Switching on the TV and Automatically Tuning

## Switching on the TV and Automatically Tuning

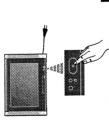
The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) adjust the picture slant 4) search for and store all available channels (TV Broadcasts) and 5) change the order in which the channels (TV Broadcasts) appear on the screen. However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (CV Broadcasts) or by pressing the Auto Start Up Button |

Do you want to start automatic tuning?

The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.

ro

Connect the TV plug to the mains socket (220-240V AC, 50Hz).
The first time that the TV set is connected, it is usually turned on. If the TV is off, press the Ø ov/off button on the TV set to turn on the TV. If the irst time you switch on the TV, a Language menu appears automatically on the TV screen.





N

The Country menu appears automatically on the TV screen. Press the  $\bullet$  or  $\bullet$  button to select the country in which you will operate the TV set, then press the OK button to confirm your selection.

ო

 If the country in which you want to use the TV set does not
appear in the list, select "-" instead of a country.
 In order to avoid wrong teletax characters for Cyrillic
languages we recommend you select Hussia as the country. if your own country does not appear in the list.

Because of the earth's magnetism, the picture might slant. The Picture Rotation menu allows you to correct the picture slant if it

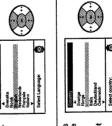
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is necessary,

if it is not necessary, press the + or + button to select Not necessary and press OK.

b) If it is necessary, press the + or + button to select Adjust now, then press OK and correct any slant of the picture between—5 and +5 by pressing the + or + button. Finally press OK ostore.











If no channels were found during the auto tuning process then to anew menu appears automatically on the screen asking you to connect the parial. Please connect the aerial (see page 6) and press OK. The auto tuning process starts again.

This procedure could take some minutes. Please be patient and do not press any buttons, otherwise the automatic tuning will not be completed.

The TV starts to automatically search and store all available broadcast channels for you.

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2882





Programme 01 TVE 02 TVE 03 TV3 04 C33 06 C53 06 C58 Select channel

After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

If you wish to keep the broadcast channels in their tuned order,

go to step 8.

â



b) If you wish to store the channels in a different order:
 1 Press the + or + button to select the programme number that has the channel (TV Broadcast) you wish to rearrange, then

press the ♦ button.

2 Press the ♦ or ♦ button to to select the new programme number position for your selected channel (TV Broadcast),

Repeat steps b)1 and b)2 if you wish to change the order of





Press the MENU button to remove the menu from the screen.

œ

Your TV is now ready for use.

continued...

## Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

Press the MENU button to switch the first level menu on.



- N
- To highlight the desired menu or option, press + or + button.
   To enter to the selected menu or option, press +.
   To return to the last menu or option, press +.
   To alter the settings of your selected option, press +/+/+ or +.
   To confirm and store your selection, press the OK button.

က

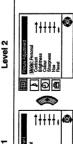


MENU Press the MENU button to remove the menu from the screen.

СВ

### Menu Guide

Level 1



~ 60 **4**1

### PICTURE ADJUSTMENT

Level 3 / Function

The "Picture Adjustment" menu allows you to after the picture adjustments. To do this:

After selecting the item you want to after press the 
button, then repeatedly press the #/\*/\* or \* buttons
to make any adjustments and finally press the OK button to store. This menu also allows you to customise the picture mode based on the programme you are watching:

• Presonal (for individual settings).

• Live (for live broadcast programmes, DVD and Digital Set Top Box receivers).

- Brightness, Colour and Sharpness can only be altered if "Personal" mode is selected.
  Hue is only available for NTSC colour signal (e.g. USA video tapes).
  Select Reset and press the OK button to return the picture settings to their factory preset levels.

continued...

## Introducing and Using the Menu System

Level 2

Level 1

Level 3 / Function

### The "Manual Programme Preset" option in the "Set Up" menu allows you to: MANUAL PROGRAMME PRESET

a) Preset channels or the VCR channel one by one to the programme order of your choice.

To do this:

1 After selecting the "Manual Programme Preset" option, press the + button then with Programme option highlighted press the + buttons to select which programme number you want to preset the channel to (for VCR, select programme number; °0"). Then press the + button.

<u>~</u> • • •

GВ

The availability of this option depends on the country you have selected in the "Language/Country" menu. After selecting the System option, press the + button. Then press the + or + buttons to select the TV Broadcasts system (B/G for western European countries or D/K for eastern European countries). Press the + button.

channel tuning (°C' for temestrial channels or °S' for cable channels). Next press + button. After that, press the numbered buttons to directly enter the channel number of the TV Broadcast or the VCR channel. If you do not know the channel number, press the • or + buttons to search for it, when you have tuned to the desired channel, press the OK button twice to store. After selecting the **Channel** option, press the **♦** button. Then press the **♦** or **♦** buttons to select the

Repeat all the above steps to tune and store more

b) Label a channel using up to five characters.

To do this:

After highlighting the **Programme** option, press the **PROG** 4-button to select the programme number of the channel you wish to name. When the programme you want to name appears on the screen, select the Label option and press • button. Next press the • to • buttons to select a letter, number or "-for a blank. Press the • button to confirm theorieracter. Select the other four characters in the same way. After selecting all the characters, press the **OK** button twice to store.

continued.

## Introducing and Using the Menu System

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### Level 3 / Function Level 2

Level 1

picture reception if the picture is distorted.

Normally the automatic fine tuning (AFT) is in operation, but you can after it manually. c) Manually fine tune the TV to obtain a better

To do this:

Whilst watching the channel (TV Broadcast) you wish to fine tune, select the AFT option and press ★ button. Next press the ✦ or ✦ buttons to adjust the fine tuning between -15 and +15. Finally press the OK button twice to store.

Skip any unwanted programme numbers when they are selected with the PROG +/- buttons.

### To do this:

After highlighting the **Programme** option, press the **PROG** 4-b button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the **Skip** option and press the \* button. Next press the • button to select **Ves**. Finally press the **OK** button twice to confirm and store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

- The availability of this option depends on the country you have selected in the "Language/Country" menu.

Select the Decoder option and press the \* button. Next press the \* or \* buttons to select On. Finally press the OK button twice to confirm and store. To do this:

To cancel this function afterwards, select "Off" instead of "On" in the step above.

### NOISE REDUCTION

The "Noise Reduction" option in the "Detail Set Up" menu allows you to automatically reduce any picture noise visible in the broadcast signal. To do this:

After selecting the option, press the • button. Then press the • or • buttons to select Auto. Finally press the OK button to confirm and store.

To cancel this function later on, select "Off" instead of "Auto" in the step above.

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## Introducing and Using the Menu System

Level 3 / Function	AV3 OUTPUT  The "AV3 Output" option in the "Detail Set Up" menu allows you to select the source to be output from the Scart connector G-3/-63 so you can record from this Scart any signal coming from the TV or from external equipment connected to Scart connectors G-1/-G-1 or G-2/-G-2 or the front connectors ⊕34 or ⊕4 and ⊕4.	is not necessary.	To do this:  To do this:  After selecting the option, press the ◆ button. Then press the ◆ or ◆ buttons to select the desired output signal: TV, AV1, AV2, AV4, VC4 or AUTO.
Level 2	*	IIII Nas Reductor	DO SOUTHWAY THE PRINCE
Level 1	Exceptions  Description  Description  Operation  Description  Descript	Est Us Language Country Associated Country	D Programs Librals  No Freet  Manual Programs Preed

If you select "AUTO", the output signal will always be the same one that is displayed on the screen.

GB

If you have connected a decoder to the Scart socket (3-3/-63 or to a VCR connected to that Scart socket, please remember to set the "AV3 Output" to "AUTO" or "TV" for correct unscrambling.

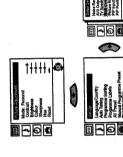


TV SPEAKERS
The "TV Speakers" option in the "Detail Set Up" menu allows you to multe the TV speakers in order to menu allows you to multe the TV speakers in order to itsen to the TV from an external amplifier connected to the audio outputs on the rear of the TV set.

To do this:

After selecting the option, press the \* button. Then press the \* or \* buttons to select Off. Finally press the OK button to confirm and store.

To cancel this function later on, select "On" instead of "Off" in the step above.



### RGB CENTRING

When connecting an RGB source, such as a "PlayStation", you may need to readjust the horizontal position of the picture. In that case, you can readjust it using the "RGB Centring" option in the "Detail Set Up".

To do this:
While watching an RGB source select the "RGB Centring" option and press the \* button. Then press the \* o \* buttons to adjust the centre of the picture between -10 and +10. Finally press the OK button to confirm and store.

## Introducing and Using the Menu System

### To do this: After selecting the option the ♣, ♠, ♦ or ♣ button to select the desired position. Finally press the OK button to store. PIP INPUT The "PIP Input" option in the "Detail Set Up" menu allows you to select which picture source you want to watch in the "PIP" screen. PIP POSITION The "PIP Position" option in the "Detail Set Up" menu allows you to change the position of the "PIP" screen within the main screen. To do this: After selecting the option, press the ♦ button. Then press the ♦ or ♦ buttons to correct any stant of the picture between -5 and +5 and finally press the OK button to store. After selecting the option, press the + button. Then repeatedly press the + or + buttons to select the desired source (AV1, AV2, AV3, AV4 or TV). Finally press the OK button to store. To watch the selected source of the "PIP" screen, press the C/O button on the remote control. Because of the earth's magnetism, the picture might start. If this is the case, you can correct the pictures start by using the option "Picture Rotation" in the "Detail Set Up" menu. You can swap the screens by pressing the 🕏/ t PICTURE ROTATION Level 3 / Function To do this: Level 2 ∢ ົໝ t 0 1++++ 0 æ m Level 1

### **Teletext**

- Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.
- Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.

### To Switch on Teletext:

After selecting the TV channel which carries the teletext service you wish to view, press the  $\blacksquare$  button.

TELETEXT

### To Select a Teletext page:

Input the 3 digits of the page number, using the numbered buttons.

If you have made a mistake, retype the correct page number.

If the counter on the screen continues searching, it is because the page is not

In that case, input another page number.

To access the next or preceding page: Press PROG + (墨) or PROG - (☞) buttons.

GВ

## To superimpose teletext onto the TV:

Whilst you are viewing teletext, press the 🗐 button. Press again to cancel teletext mode.

To freeze a teletext page: Press the €J/€ button. Press again to cancel freeze.

## To reveal concealed information (e.g: answer to a quiz):

Press the (14)(2) button. Press again to conceal the information.

### To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner changes colour from yellow to green, and one or more arrows will appear next to the page number. Repeatedly press the ← or ◆ buttons on the remote control to watch the desired sub page.

### To Switch Off Teletext:

Press () button.

The Fastext service lets you access pages with one button push.

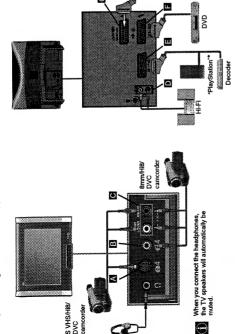
While you are in Teletext mode and providing Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press one of the coloured buttons (red, green, yellow or blue) to access the

corresponding page.

. E G

## Connecting Additional Equipment

Using the following instructions you can connect a wide range of optional equipment to your TV set. 
(Connecting cables are not supplied).



- \* "PlayStation" is a product of Sony Computer Entertainment, Inc. \* "PlayStation" is a trademark of Sony Computer Entertainment, Inc.
- To avoid picture distortion, do not connect external equipment to connectors 🐧 and 🖪 at the same
- Do not connect a Decoder to the Scart connector

### Connecting a VCR

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual. We recommend you connect your VCR using a Scart lead. If you do not have a Scart lead, tune in the VCR test signal to the TV programme number "0" by using the "Manual Programme Preset" option. (for details of how to manually programme these presets, see page 13, step a).

Refer to your VCR instruction manual to find out the output channel of your VCR.

Connecting a VCR that supports Smartlink:

Smartlink is a direct link between the TV set and the VCR. For more information on Smartlink, please refer to the instruction manual of your VCR.

If you use a VCR that supports Smartlink, please connect the VCR by using a Scart lead to the Scart socket (3-8) (6).

# if you have connected a decoder to the Scart →3/⊕3 € or through a VCR connected to

Select the "Manual Programme Preset" option in the "Set Up" menu and after selecting the "Decoder<sup>44</sup>" option, select "On" (by using the ♦ or ♦ button). Repeat this procedure for each scrambled signal.

\*\* The availability of this option depends on the country you have selected in the "Language/Country" menu.

continued...

## Connecting Additional Equipment

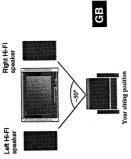
## Connecting to external Audio Equipment:

Plug in your H-Fi equipment to the audio output sockets **D** if you wish to amplify the audio output from your TV. Next, using the menu system, select the "Set Up" menu. Enter the "Detail Set Up" menu and set "TV Speakers" to "Off".

The audio level of the external speakers can be modified by pressing the volume buttons on the remote control. Also, treble and bass settings can be modified through the "Sound Adjustment" menu.

## To enjoy "Dolby Virtual" sound effect through your Hi-Fi equipment:

Place the speakers of your equipment in front of your sitting position and besides the TV set, but keeping a distance of 50 cm from each speaker to the TV Set and select the menu system, select the menu Sound Adjustment", and select "Dolby Virtual" on the "Effect" option.



## **Using optional Equipment**

- Connect your equipment to the designated TV socket, as indicated in the previous page.
- Switch on the connected equipment.
- To watch the picture from the connected equipment, press the 🕤 button repeatedly until the correct input symbol appears on the screen.

### Input Signals Symbol

- Audio / video input signal through the Scart connector Ģ
- RGB input signal through the Scart connector . This symbol appears only if a RGB source has been connected. φ
- Audio / video input signal through the Scart connector õ
- RGB input signal through the Scart connector . This symbol appears only if a RGB source has been connected. ő
- Audio/video input signal through the Scart connector G. Õ
- S Video Input signal through the Scart connector G. This symbol appears only if a S Video source has been connected. É
  - Video input signal through the phono socket **B** and Audio input signal through phono socket **B**. **\$**
- S Video Input signal through the front S Video input jack 🖪 and Audio signal through phono socket 💁 This symbol appears only if a S Video source has been connected. 4
- 4 Press C button on the remote control to return to the normal TV picture.

For Mono Equipment
Connect the phono put to the L/G/S/I socket on the front of the TV and select +D4 or +34 input signal
using the instructions above. Finally, refer to the "Sound Adjustment" section of this manual and select "Dual
Sound" \*A" on the sound menu screen.

### Specifications

TV system	Depending on your country selection B/G/H, D/K
Colour System	PAL, SECAM NTSC 3.58, 4.43 (Video In only)
Channel Coverage	VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 DYPER: S21-S41 D/K: R1-R12, R21-R69
Picture Tube	Flat display FD Trinitron 29" (approx. 73cm measured diagonally)
Rear Terminals	
	(CENELEZ STARDAY) including audion video input, ROB input, monitor audio/video output (CENELEZ Standard) including audio/ (SMARTLINK) video input, S-video input, selectable audio/video output SmARTLINK) video input, selectable audio/video output audio/video output audio/video output and Smartlink interface  Audio outputs (Left/Right) - phono jacks
Front terminals	€34 S Video input - 4 pin DIN €34 Video input - phono jack ••••••••••••••••••••••••••••••••••••
Sound Output	2 x 20W (Music Power), 2 x 10W (RMS) Woofer: 30W (Music Power), 15W (RMS)
Power Consumption	130W
Standby Power Consumption	0.3W
Dimensions (WxHxD)	Approx. 771mm x 585mm x 506mm
Weight	Approx. 48.5kg
Accessories Supplied	1 Remote Control (RM-944), 2 batteries (IEC designated)
Other Features	100Hz picture     Teletext, Fastext, TOPtext (250 page TEXT memory)     Sleep Timer     Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR)     TV system Autodetection     Deby Virtual     BBE     PIP

Design and specifications are subject to change without notice.

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### **Troubleshooting**

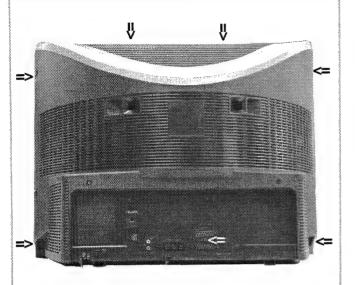
(1) Here are some simple solutions to problems which may affect the picture and sound.

Problem	Suggested Remedy
No picture (screen is dark), and no sound.	<ul> <li>Check the aerial connection.</li> <li>Plug the TV in and press the O button on the front of the TV.</li> <li>If the standby indicator O is on press the I/O button or a numbered button on the remote control.</li> </ul>
Poor or no picture (screen is dark), but good sound.	<ul> <li>Using the MENU system, select the "Picture Adjustment" display and select "RESET" to return to the factory settings.</li> </ul>
No picture or menu information from equipment connected to the Scart socket.	<ul> <li>Check that the optional equipment is on, and press the</li></ul>
Good picture, no sound.	Press the      button on the remote control.     Check that "TV Speakers" is "On" in the "Detail Set Up" menu.     Check the Headphones are not connected.
No colour on colour programmes.	<ul> <li>Using the MENU system, select the "Picture Adjustment" and select "RESET" to return to the factory settings.</li> </ul>
Distorted picture when changing programmes or selecting Teletext.	<ul> <li>Turn off any equipment connected to the scart connectors on the rear of the TV.</li> </ul>
Wrong characters appear when viewing teletext.	<ul> <li>Using the menu system, display the "Language/ County" menu and select the country in which you are operating the TV set. For cyrillic languages, we recommend selecting "Russia" if your own country does not appear in the list.</li> </ul>
Picture slanted.	<ul> <li>Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant.</li> </ul>
Snowy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better pricture reception to Using the menu system, select the 'Noise Reduction' option in the "Detail Set Up" menu and select "Auto" to reduce the noise in the picture.
No unscrambled picture whilst viewing un unscrambled channel with a decoder connected through the scart connector (♣3/€3.	Using the menu system, display the "Set Up" menu. Then select the "Detail Set Up" option and set "AV3 Output" to "TV."     Output the decoder is not connected to the G-2 scart socket.
Remote control does not function.	Replace the batteries.
The standby indicator & on the TV flashes.	<ul> <li>Contact your nearest Sony service centre.</li> </ul>

If you continue to have problems, have your TV serviced by qualified personnel.
 NEVER open the casing yourself.

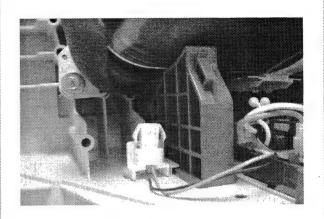
### **SECTION 2 DISASSEMBLY**

### 2-1. Rear Cover Removal



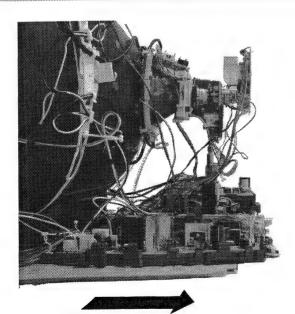
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set.

### 2-2. Speaker Connector Disconnection

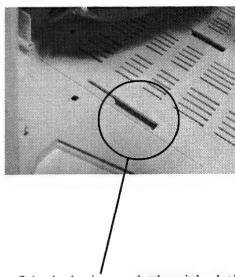


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

### 2-3. Chassis Removal and Refitting

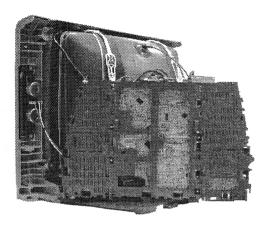


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



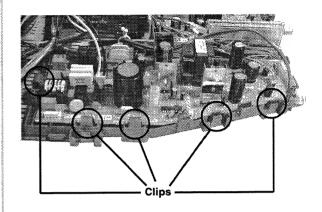
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

### 2-4. Service Position



To place the chassis in the service position, remove the H bracket and stand the chassis as shown above. To gain access to the underside of the boards follow the instructions on page 16. [Removal and Replacement of the main bracket bottom plates].

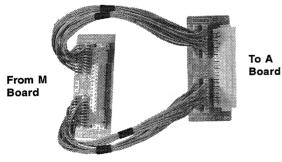
### 2-5. G Board Removal



To remove the G Board release the clips circled and ease the board gently away from the support bracket.

Removal of the D board follows the same procedure.

### 2-6. Service Connector for M Board

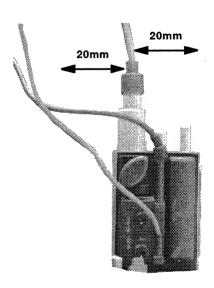


Extender Board Assembly A-1642-293-A

If the M Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.

The Extender board and extension cable are available as a service part by ordering the part number as indicated.

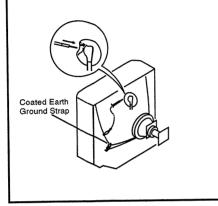
### 2-7. Wire Dressing

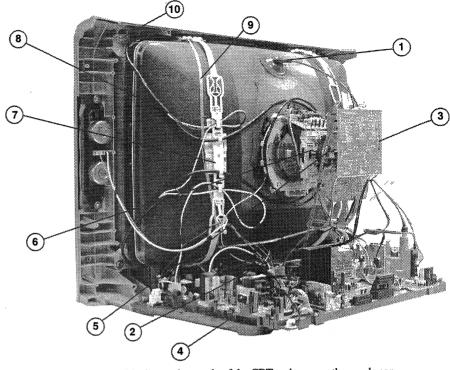


Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

### WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

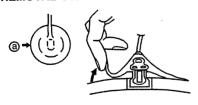




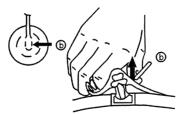
- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
- 3. Remove the C Board from the CRT.
- 4. Remove the chassis assembly.
- 5. Loosen the Neck assembly fixing screw and remove.
- 6. Loosen the Deflection yoke fixing screw and remove.
- 7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
- 8. Remove the Degaussing Coils.
- 9. Remove the CRT grounding strap and spring tensioners.
- Unscrew the four CRT fixing screws [ located on each CRT corner ] and remove the CRT.
   [Take care not to handle the CRT by the neck.]

### Removal of the Anode-Cap

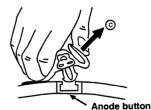
### REMOVAL PROCEDURE.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



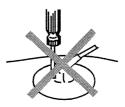
Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow b

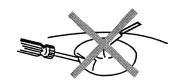


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

### How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





## REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

## (1) REMOVING THE PLATES

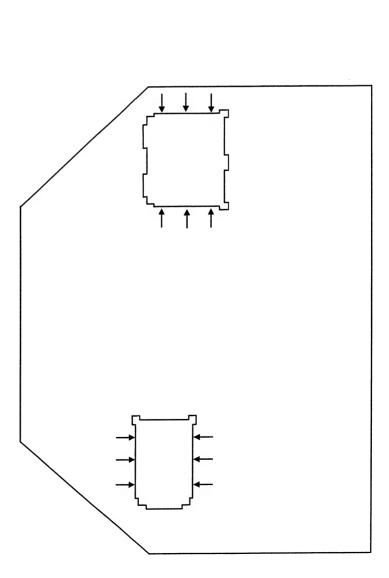
bottom plates fitted to the main chassis bracket require to be removed. This is performed by In the event of servicing being required to the solder side of the printed wiring boards, the cutting the gates with a sharp wire cutter at the locations indicated by the arrows. Note: There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.

## For safety reasons, on no account should the plates be removed and not refitted after servicing.

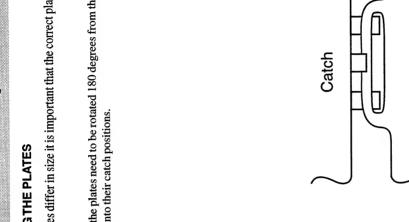
## (2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



Tab



### SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast	normal
Brightness	normal

### Carry out the adjustments in the following order:

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note: Test equipment required.

- Color bar/pattern generator.
- 2. Degausser.
- Oscilloscope.
- 4. Digital multimeter.

### 3-1. Beam Landing

### Preparation:

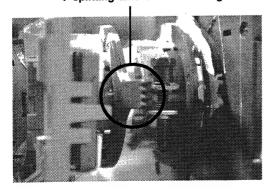
- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the TV set's power and degauss with a degausser.

### (1) Adjustment of Correction Magnet for Y-Splitting Axis.

- 1. Input a crosshatch signal from the pattern generator.
- 2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- 3. Position the neck assembly as indicated in Fig.3-2.
- Loosen the deflection yoke fixing screw.
- 5. Move the deflection yoke as far forward as is possible.
- 6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
- Return the deflection yoke to its original position and re-tighten its fixing screw.

### Fig.3-1

### Y-splitting axis correction magnet



### Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

### (2) Landing

**Note:** Before carrying out the following adjustments adjust the magnets as indicated [See Fig.3-4].

- 1. Input a crosshatch signal from the signal generator.
- Rough-adjust the focus and horizontal convergence.
- 3. Switch from the crosshatch pattern to an all-red pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
- Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
- 6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
- 7. Position the deflection yoke between the two marks indicated above
- Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
- When the position of the deflection yoke has been determined, fasten it with its fixing screw.
- Switch the pattern generator to green then blue and confirm the purity.
- 11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

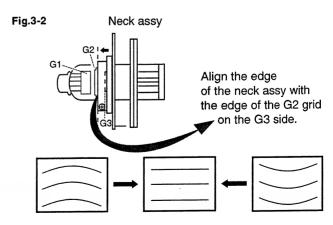
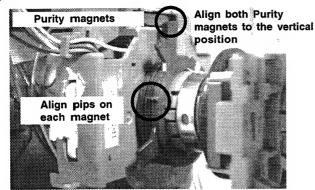


Fig.3-3

Fig.3-4



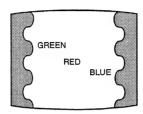
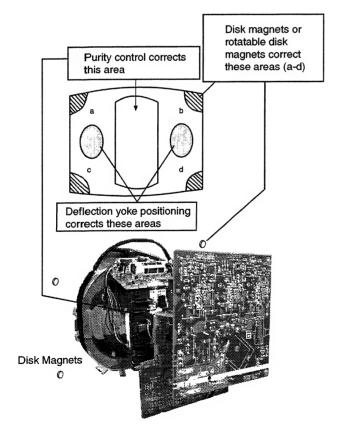
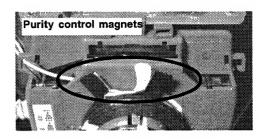


Fig.3-5

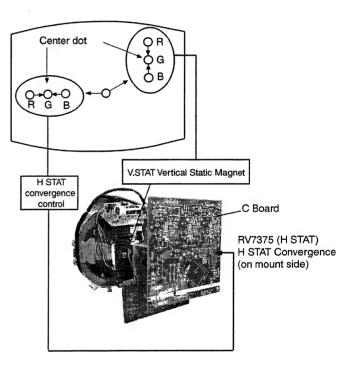




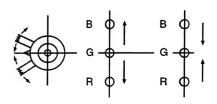
### 3-2. Convergence

### (1) Screen centre convergence [Static convergence]

- 1. Input a dot pattern signal from the pattern generator.
- 2. Normalize the picture setting.
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



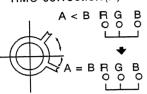
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



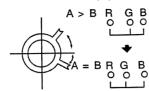
**Note:** Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

- Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HMC correction(A)

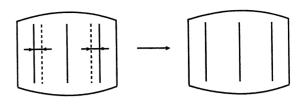


HMC correction(B)



b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

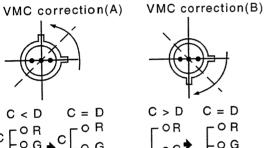
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



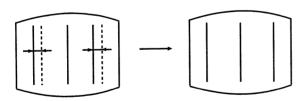
### **YCH Adjustment**



### VMC correction(A)



### **HAMP Adjustment**

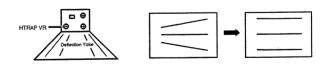


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

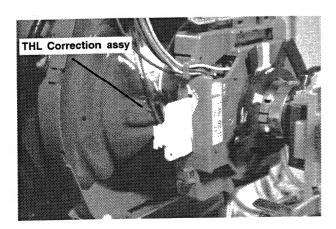
### TLV Adjustment



### H-TRAP Adjustment

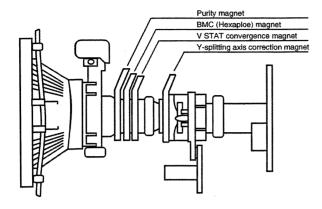


### **HTIL Adjustment**

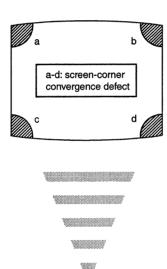


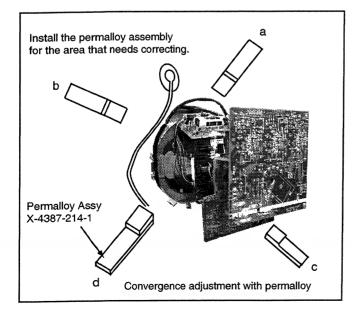
The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

### Layout of each control



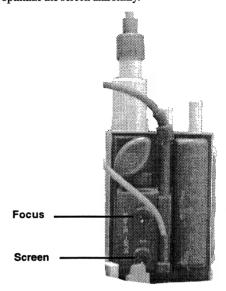
**Note:** If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.





### 3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magentaring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



### 3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

### G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

### White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- 2. Set the TV set or operation in Service Mode. [See Page 21].
- 3. Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 4. The 'Service' menu will appear on the screen. [See Page 22]
- 5. Set the 'Contrast' to MAX.
- 6. Set the 'R-Drive' to 50.
- Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the 'Contrast' to MIN.
- 10. Set the 'R-Cutoff' to 29.
- Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 12. Press the 'OK' button to write the data for each item.

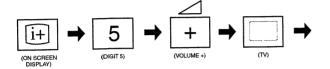
### **SECTION 4 CIRCUIT ADJUSTMENTS**

### 4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-944 (KV-29XL70) or RM-934 (KV-29XL71).

### How to enter into the Service Mode

- 1. Turn on the main power switch and enter into the stand-by
- 2. Press the following sequence of buttons on the Remote Commander.



"TT—" will appear in the upper right corner of the screen. Other status information will also be displayed.

Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Service
Scanrate
DAC
Dyn. Conv.
PiP
Sound
IF adjust
Error Menu
AE6B v4.20 (Dic 03)
Factory data FFh FFh
MSP/Scan/IFOB: MSP3411G/9402-13/ON

- 4. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 5. Press the right arrow button to enter into the required menu item.
- Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

### Note:

 After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

GEOMETRY		
ABL TH ABL MODE P ABL V SIZE V POSITION V COMP V LIN S CORRECTION H SIZE PIN AMP UP CORNERPIN M PIN LO CORNERPIN TRAPEZIUM H POSITION AFC BOW AFC ANGLE LEFT BLK RIGHT BLK V ASPECT AKBTIM1 AKBTIM2 IKR HNG VNG	(0, 3) (0, 3) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63)	0 0 15 35 33 1 7 7 44 32 29 2 29 2 40 8 9 34 17 47 2 0

DYN. CONV.		
RANGE YupL VAL YlowL VAL MBOWupL VAL MBOWlowL VAL	(0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63)	63 0 30 0 31 0 31 0
HAMPL VAL YupR VAL YlowR VAL MBOWupR VAL MBOWlowR	(0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1)	0 37 0 30 0 30 0 32 0
VAL HAMPR VAL UP Y VAL LOW Y VAL H STAT VAL UP CORR VAL	(0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63) (0, 1) (0, 63)	32 0 36 0 31 0 33 0 33 0
LOW CORR VAL	(0, 1) (0, 63)	0 19

IF ADJUST			
Automute Audio Gain L Gating		1 0 0	
AGC TOP	(-16, +15)		-6

SERVICE		
SUB COL SUB HUE SUB SHARP SUB BRIGHT SUB CONT R-DRIVE G-DRIVE B-DRIVE R CUTOFF G CUTOFF B CUTOFF Br TXT Br OSD	(0, 63) (0, 15) (0, 15)	Adj 31 30 13 12 50 Adj Adj 28 24 46 7

DAC			
CONFIG MPIN CONT HLIN HTRAP ROT. COIL PHOCUS PH	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	00000000	96 83 127 130 90

SOUND		
M-N M-D M-S S-M D-M N-M BBE B1 B2 B3 B4 B5 SW L	(0, 511) (-128, -1) (+0, +127) (+0, +127) (-128, -1) (0, 1023) (+0, +68) (-96, +96) (-96, +96) (-96, +96) (-96, +96) (-96, +96) (-96, +96) (-128, +0)	200 -20 +20 +10 -10 496 +28 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
SW F NICAM C AD	(+5, +40)	
NICAM Error	(0, 2047)	0
Stereo	(-128, +127)	+0
Status	000000110	

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11	OCP OVP VSYNC IKR IIC NVM HPROT TUNER SOUNDP - SCANRATE	(0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0
E13 E14 E15 E16	DAC BACKEND DYN CON PIP	(0, 255) (0, 255) (0, 255) (0, 255)	0 0 0 0
WORKING TIME HOURS MINUTES			14 7

### Sub Brightness Adjustment

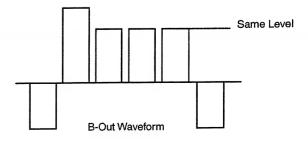
- 1. Input a Monoscope pattern.
- 2. Set the TV set or operation in Service Mode. [See Page 21].
- Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 4. The 'Service' menu will appear on the screen.
- 5. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

### **Sub Contrast Adjustment**

- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J7375 [C Board].
- 3. Set the TV set or operation in Service Mode. [See Page 21].
- 4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 5. The 'Service' menu will appear on the screen.
- 6. Adjust the Sub-Contrast to obtain a voltage of 105 +/- 5V.

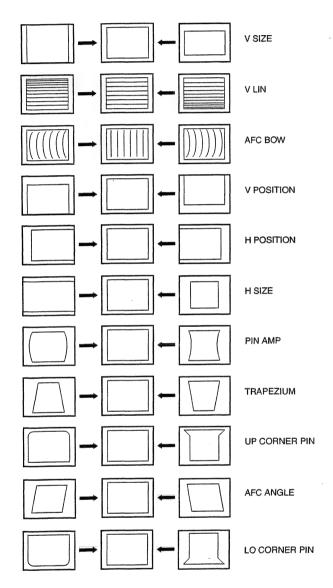
### Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
- 3. Set the TV set or operation in Service Mode. [See Page 21].
- 4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 5. The 'Service' menu will appear on the screen.
- 6. Adjust the 'Sub Colour' so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



### **Deflection System Adjustment**

- 1. Set the TV set or operation in Service Mode. [See Page 21].
- 2. Select 'Geometry' from the on screen menu display and press 'Right Arrow'.
- 3. The 'Geometry' menu will appear on the screen.[See Page 21]
- 4. Select and adjust each item in order to obtain the optimum image.

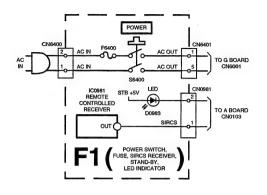


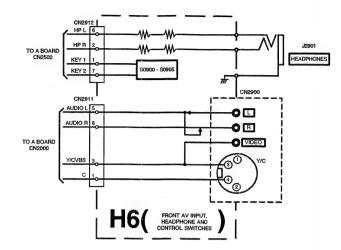
### 4-2. TEST MODE 2:

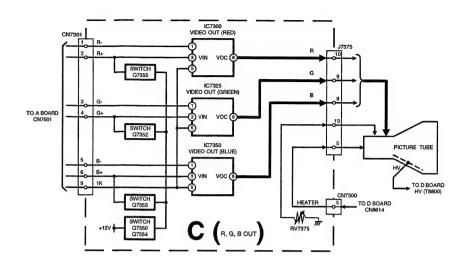
Test Mode 2 is available by setting the TV for operation in Service Mode [ As shown on Page 21 ] , OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

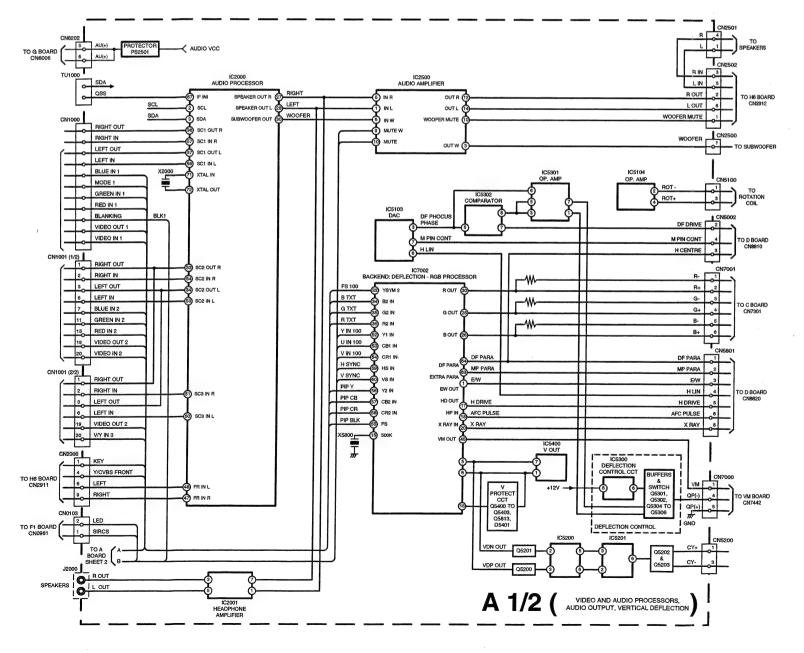
00	'TT' mode off	
01	Picture maximum	
02	Picture minimum	
03	Set speaker/headphone Volume to 35%	
04	Set speaker/headphone Volume to 50%	
05	Set speaker/headphone Volume to 65%	
06	Set speaker/headphone Volume to 80%	
07	Ageing mode	
80	Shipping Condition	
11	Sub picture adjustment	
12	Sub colour adjustment	
13	Sub Brightness adjustment	
14	Text H Position adjustment	
15	Rotation Coil Test	
16	Picture level 50%	
19	Factory Mode Enable/Disable	
21	Destination ADEKR	
22	Destination BL	
23	Destination ADEKR	
24	Destination U	
25	Destination ADEKR	
26	Destination BL	
27	Destination ADEKR	
28		
31	Auto Shutoff Enable/Disable	
36	Velocity Modulation (VM) OFF/ON test	
41	Re-initialise NVM	
43	Select Dual A sound	
44	Select Dual B sound	
45	Select Mono sound	
46	Select Stereo sound	
48	Set NVM as non virgin	
49	Set NVM as virgin	
53	FM Overmodulation Enable/Disable	
55	Tuner selection (SONY/ALPS)	
59	Select Model 3 Scarts + PIP or 2 Scarts	
68	Enable/Disable X26 countermeasure (N problem)	
73	Enable Zweiton D/K2 system (6.5/6.74)	
74	Enable Zweiton D/K3 system (6.5/5.74)	
78	Balance full right	
79	Balance full left	
87	Local keys test	
99	Display Error and Working Time menu	

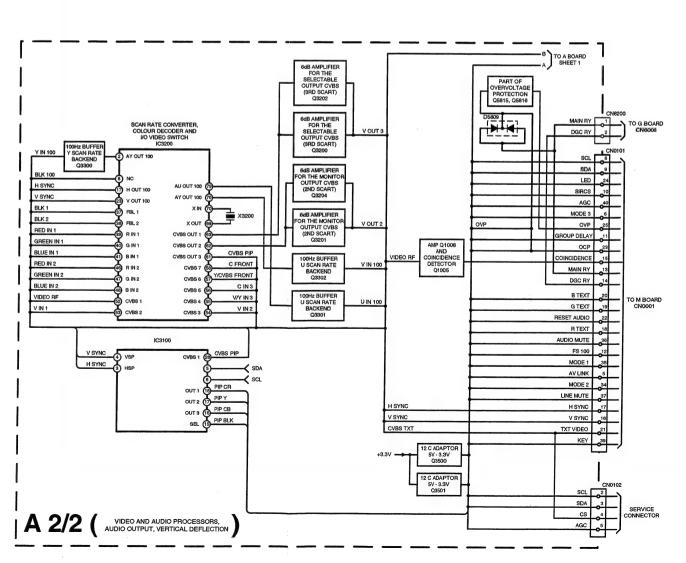
### 5-1. BLOCK DIAGRAMS (1)



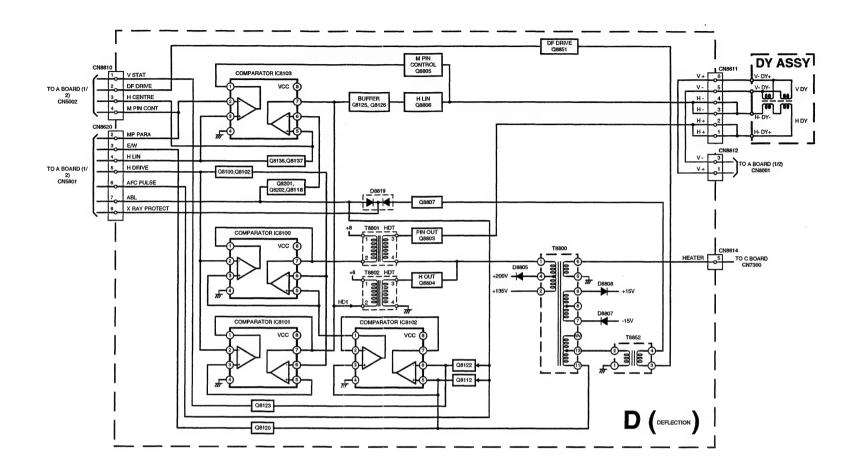


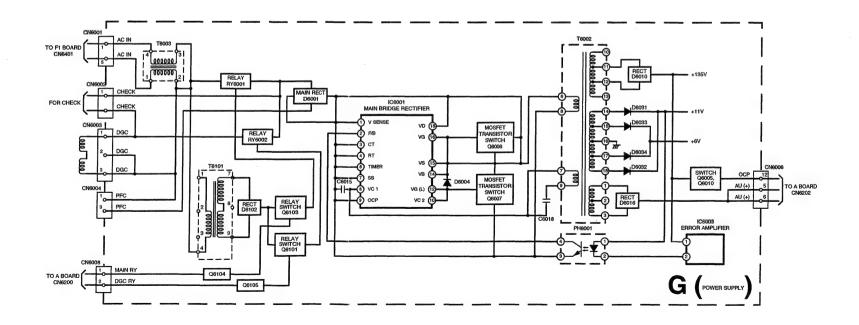




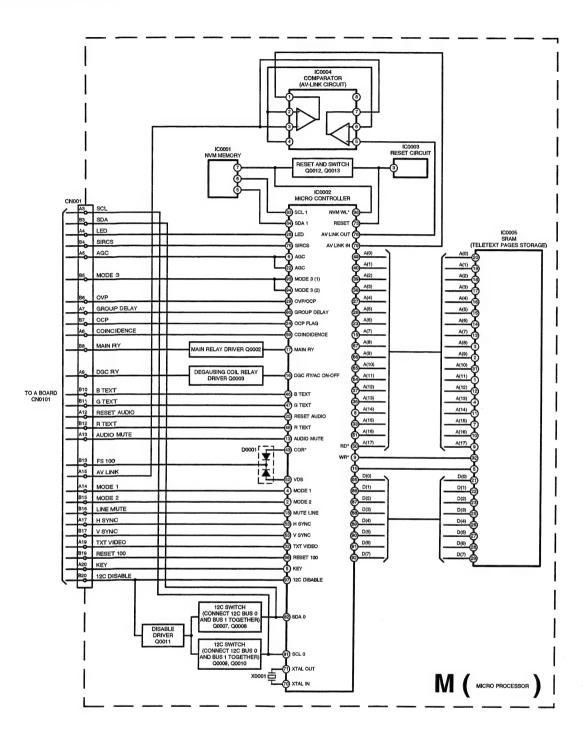


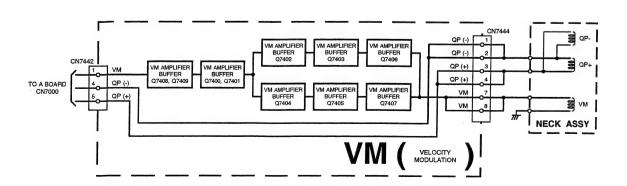
### 5-1. BLOCK DIAGRAMS (2)



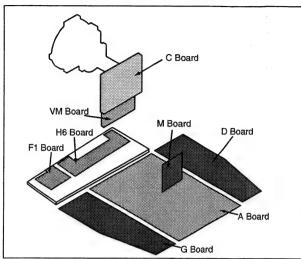


### 5-1. BLOCK DIAGRAMS (3)





### 5-2. CIRCUIT BOARD LOCATION



### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

### Note:

- All capacitors are in μF unless otherwise noted.
   pF : μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.

k = 1000 ohms, M = 1000,000 ohms

: nonflammable resistor.

: fusible resistor.

: internal component.

: panel designation or adjustment for repair.

All variable and adjustable resistors have

- characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.

Voltage variations may be noted due to normal production

: B + bus.

: B - bus.

: RF signal path.

: earth - ground.

: earth - chassis.

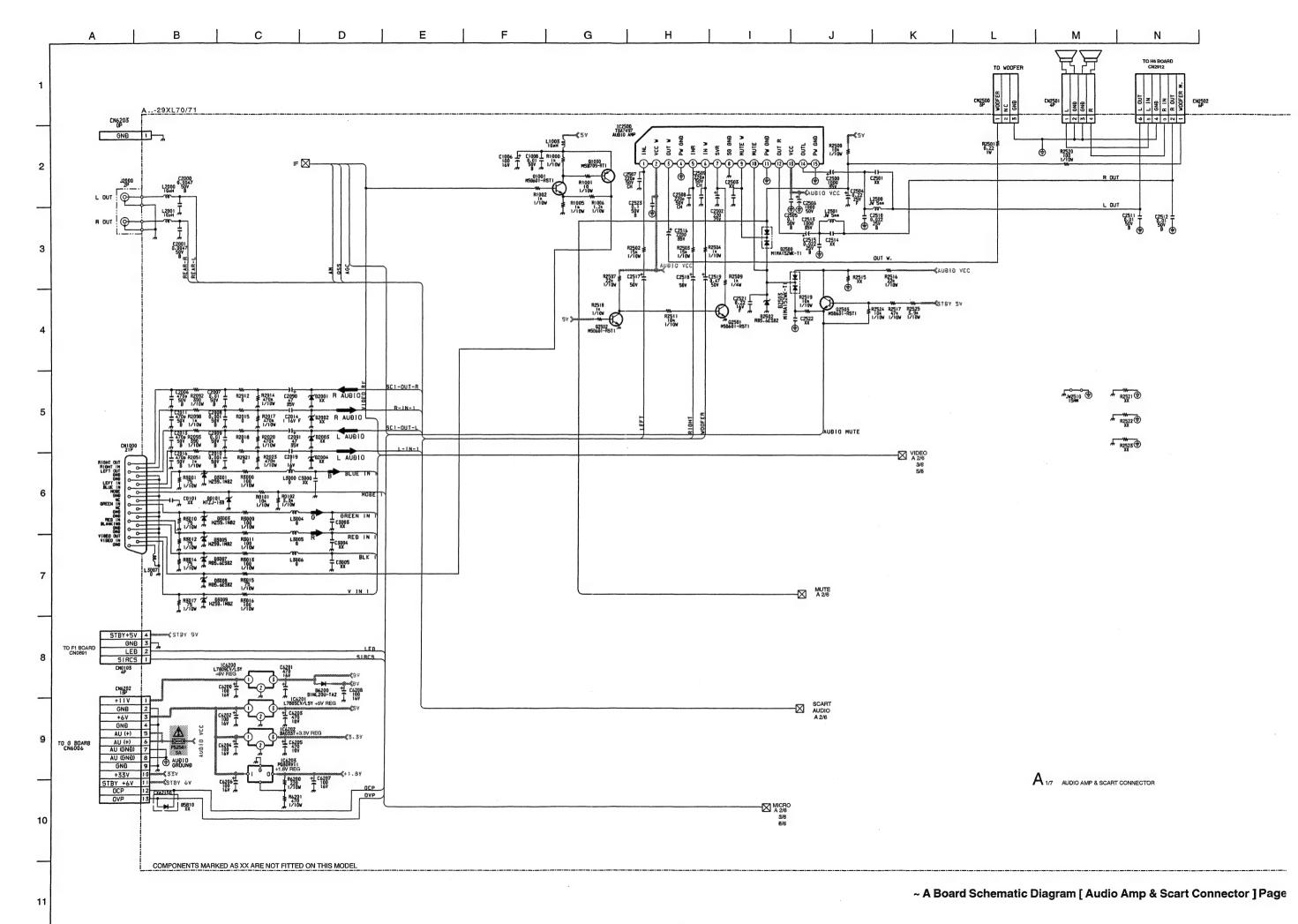
### **Reference Information**

RESISTOR	RN	: METAL FILM		
	RC	: SOLID		
	FPRD	: NON FLAMMABLE CARBON		
	FUSE	: NON FLAMMABLE FUSIBLE		
	RS	: NON FLAMMABLE METAL OXIDE		
	RB	: NON FLAMMABLE CEMENT		
	RW	: NON FLAMMABLE WIREWOUND		
,	<b>※</b>	: ADJUSTMENT RESISTOR		
COIL	LF-8L	: MICRO INDUCTOR		
CAPACITOR	TA	: TANTALUM		
	PS	: STYROL		
	PP	: POLYPROPYLENE		
	PT	: MYLAR		
	MPS	: METALIZED POLYESTER		
	MPP	: METALIZED POLYPROPYLENE		
	ALB	: BIPOLAR		
	ALT	: HIGH TEMPERATURE		
	ALR	: HIGH RIPPLE		

Note: The components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part numbers specified in the parts list.

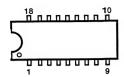
Note: Les composants identifiés par une trame et par une marque **A** sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

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### 5-4. SEMICONDUCTORS

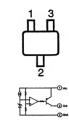
CXAB070AP MCZ3001D



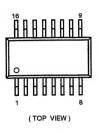
LM318P LM358N LM393DT LM393N M24C16-MN6T(A)



PST573IMT



CXA1875AM-T4



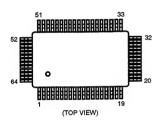
LM78L05ACZ



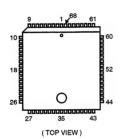
SAA5665HL/M1D/0358



CXA2100AQ-TL



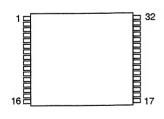
MSP3411G-QA-B10



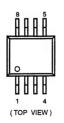
SBX3081-51(30)



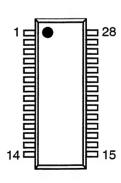
K6T2008V2A-YF70T00



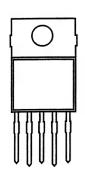
NJM3404AD-W UPC4558G2



SDA9488X-B23GEG



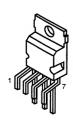
LA6500-FA



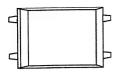
PQ30RV11



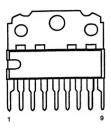
STV9379



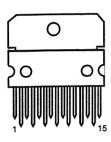
### TCET1103G



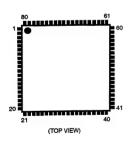
TDA6111Q/N4



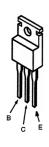
TDA7497



VPS9402-A32GEG



BA12T BAO33T IRF614-005 IRF620 SPA07N60C2 2SA2005 2SC5511



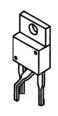
DTA144EK DTC144TKA-T146 2SA1162-G



DTA144ESA 2SA933AS-QT 2SC2785-HFE



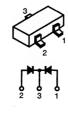
L7809CV/LSY STP5NB40FP STP5NB40(030Y) 2SC5698-CA 2S5696-SONY-CA



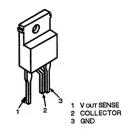
MSB709-RT1 MSD601-RST1 M1MA152WA-T1 UN2111 UN213 2SK2036(TE85L)



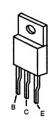
RB705D



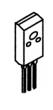
SE135N-LF4



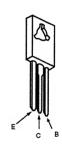
2SA1837(LBS2S0N)



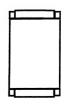
2SB734-34



2SC2688(5)-LK



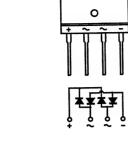
BAS216



BAS316-115 MMDL914T1 UDZSTE-176.2B



BYV98-200-RAS 15/12



GS1B460/45

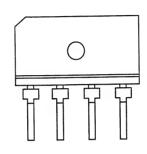
FBIU4D7MA-B

RBV-406B

S1VB40

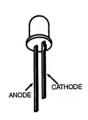
CATHODE

D1NL20U EGP20G EL1Z GP08D UF4005PKG23



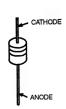
CATHODE

D2S4MTA1



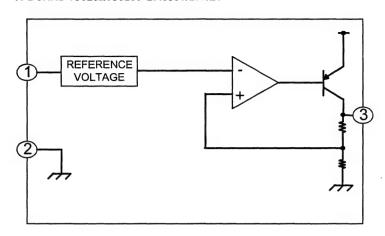
TLHK5190

ERA38-06 ERA85-009 HZS9.1NB2 MTZJ-13B MTZJ-33B MTZJ-3.6A MTZJ-4.7C MTZJ-T-77-22 RD15ES-B2 RD39ES-B2 RD5.6ESB2 1SS119-25 1SS133T-77

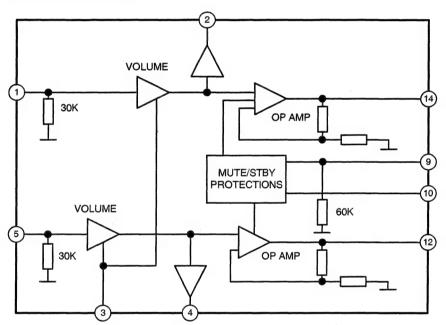


### 5-5 IC BLOCK DIAGRAMS

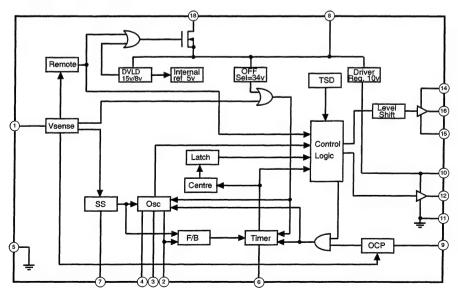
### A BOARD IC6202/IC6205 BA033T/BA12T



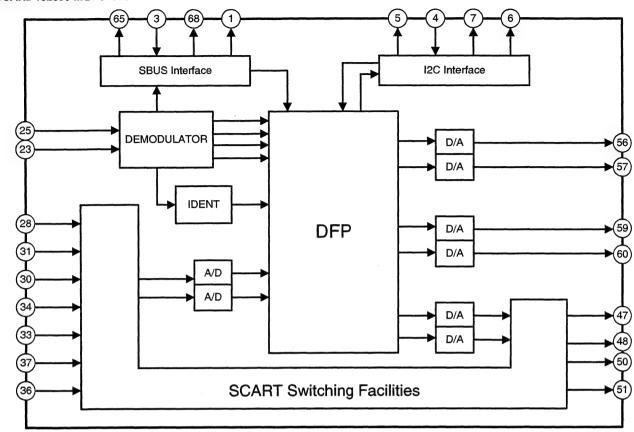
### **A BOARD IC2500 TDA7497**



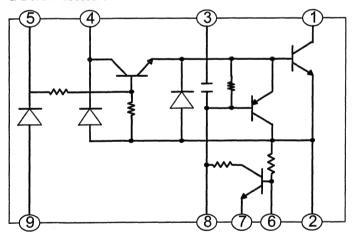
### G BOARD IC6001 MCZ3001D



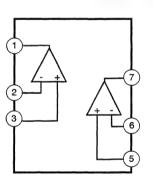
### A BOARD IC2000 MSP3411G



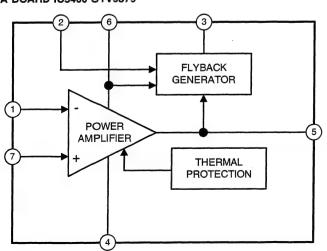
### G BOARD IC6003 SE135N-LF4



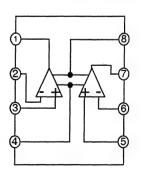
### A BOARD IC5301/IC5302 LA6393DLL



### **A BOARD IC5400 STV9379**



### A BOARD IC5300 LM358N



### SECTION 6 EXPLODED VIEWS

### NOTE:

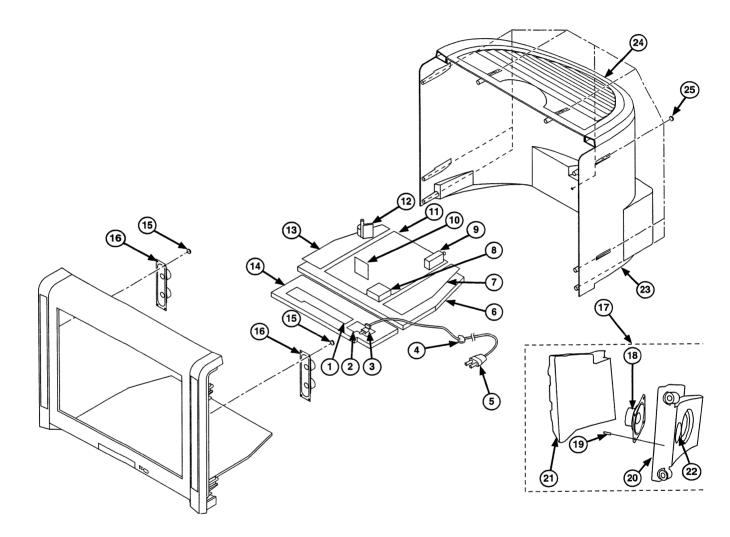
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked ∆ are critical for safety.

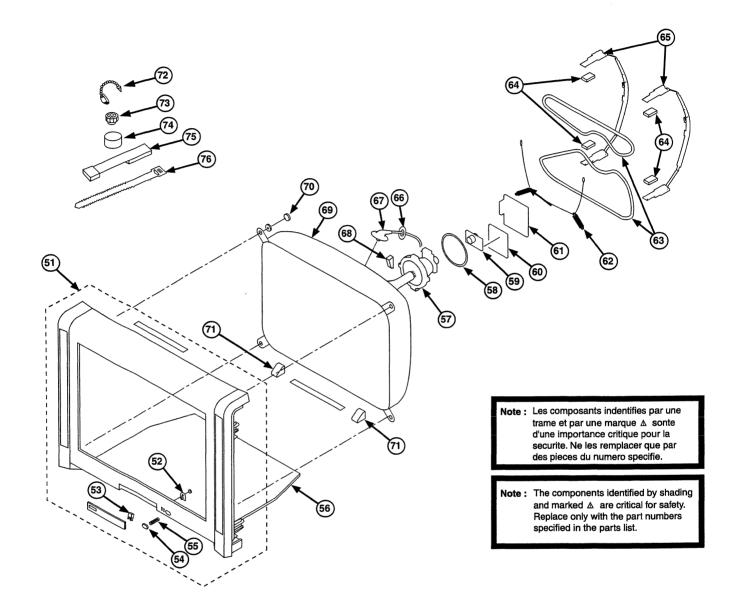
Replace only with the part numbers specified in the parts list.

### 6-1. CHASSIS



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1055-452-A	H6 BOARD COMPLET	3	14	*4-103-134-01	BRACKET, H	
2	*A-1055-970-A	F1 BOARD, COMPLE	re	15	4-058-870-01	SCREW (4x16)W(+)P TAP	PING
- 3 Δ	1-571-433-21	SWITCH, PUSH (AC		16	1-529-408-11	SPEAKER (4.2x24CM)	
Δ	*4-202-531-01	AC CORD LOCK (SC	)	17	A-1606-689-A	WOOFER COMPLETE ASSY	18 - 22
5 Δ	*1-823-853-11	CORD, POWER		18	1-910-000-50	WOOFER LS	
6	*4-206-106-06	BRACKET, MAIN		19	7-685-663-71	SCREW +BVTP 4x16 TYPE	2 IT-3
7	A-1637-024-A	G BOARD, COMPLET	3	20	*4-102-535-01	WOOFER BAFFLE	
8	1-424-855-11	COIL, CHOKE 29MM		21	*4-102-534-01	WOOFER BOX	
9	8-598-623-10	TUNER FSS BTP-AC		22	*4-102-533-01	WOOFER PORT	
10	*A-1634-062-A	M BOARD, COMPLET	3	23	4-103-130-01	REAR COVER	
11	*A-1632-952-A	A BOARD, COMPLET		24	4-103-136-01	29 LOOP PAINTED	
11 A		, , , , , , , , , , , , , , , , , , , ,	, FLYBACK (NX-4522//Z2B4)	25	7-685-663-71	SCREW +BVTP 4x16 TYPE	2 IT-3
13	*A-1640-432-A	D BOARD, COMPLET	***************************************				

### 6-2. PICTURE TUBE

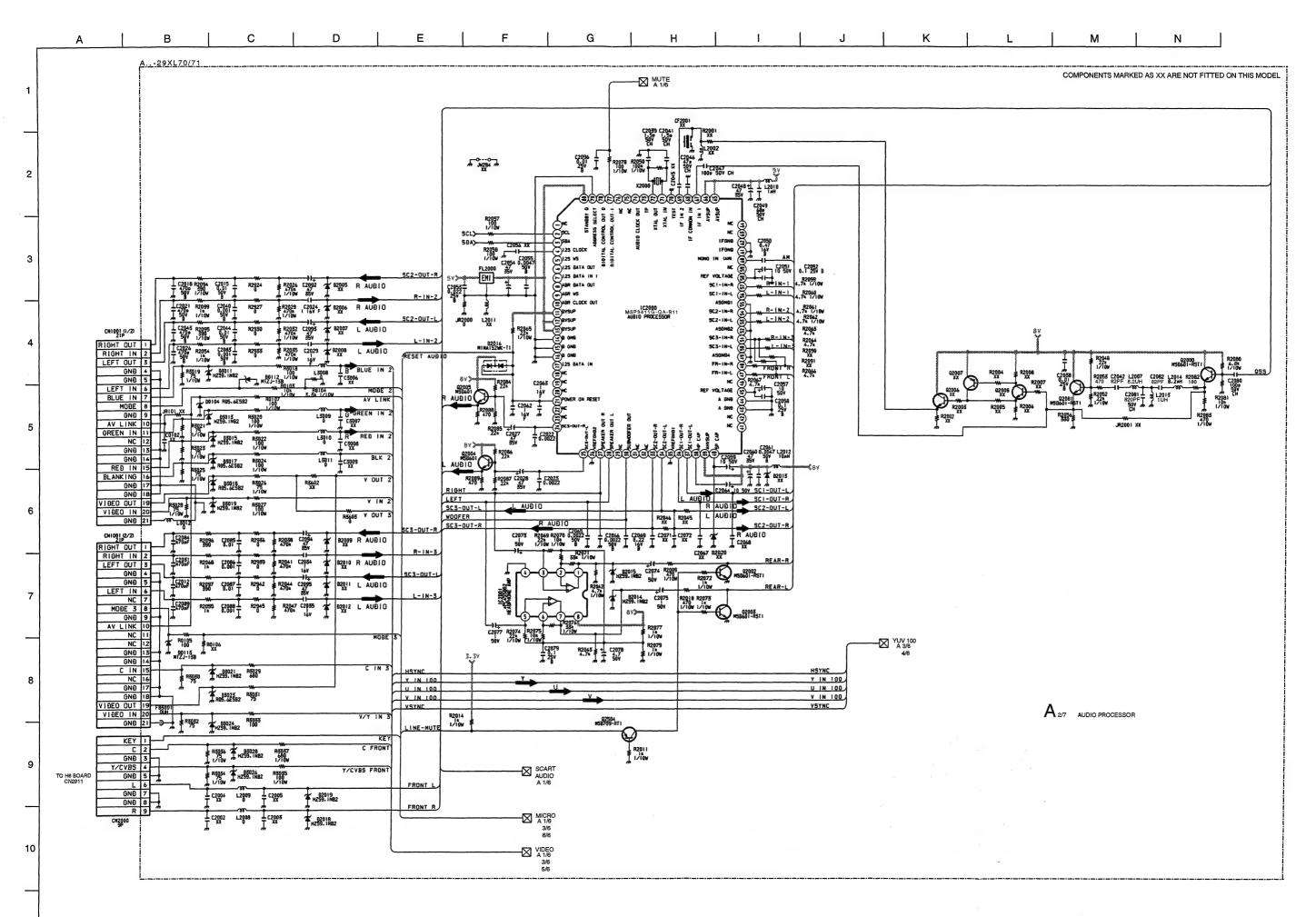


REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-2021-299-1	BEZNET ASSY	52-55	64	*4-203-390-11	CUSHION, DGC	
52	4-205-375-01	GUIDE, LIGHT		65	*4-204-768-02	HOLDER, DGC (29")	
53	4-087-491-11	SPRING (DOOR)		66	4-202-554-02	HOLDER, HV CABLE	
54	4-102-532-01	POWER BUTTON		67 △	1-251-946-11	CAP ASSY, HIGH-VO	LTAGE
55	4-204-426-01	SPRING		68	3-704-495-03	SPACER, DY	
56	*4-103-133-01	CHASSIS BRACKET		69 △	8-735-097-05	PICTURE TUBE (M68	INHO60X)
<b>5</b> 7 △	8-451-504-31	DEFLECTION YOKE	Y29RSC-5)	70	4-046-765-12	SCREW, TAPPING 7+	CROWN WASHER
58	1-452-896-11	COIL, NA ROTATION	(RT200)	71	*4-206-160-01	SUPPORT CRT	
59 △	8-453-021-21	NECK ASSY, (NA-29	19-M2)	72	4-308-870-00	CLIP, LEAD WIRE	
60	*A-1300-626-A	VM BOARD, COMPLET	E	73	1-452-094-00	MAGNET, ROTATABLE	DISK; 15MM Ø
61	*A-1055-968-A	C BOARD, COMPLETE	1	74	1-452-032-00	MAGNET, DISK; 10M	ΜØ
62	4-369-318-21	SPRING, TENSION		75	X-4387-214-1	PERMALLOY, CORREC	Tion
<b>6</b> 3 ∆	1-424-888-11	COIL, DEGAUSSING		76	3-701-007-00	BAND, BINDING	

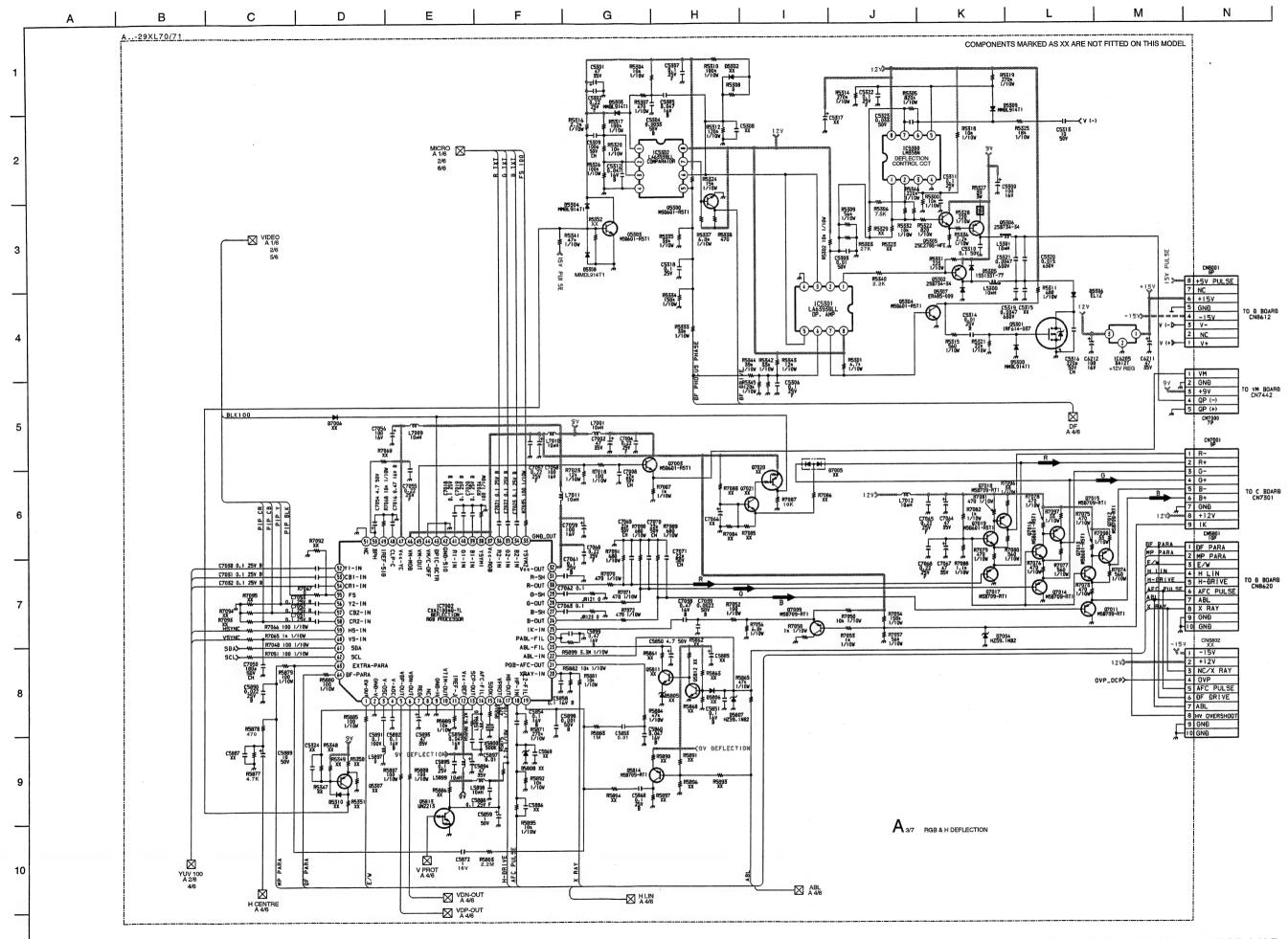
### SECTION 7 ELECTRICAL PARTS LIST

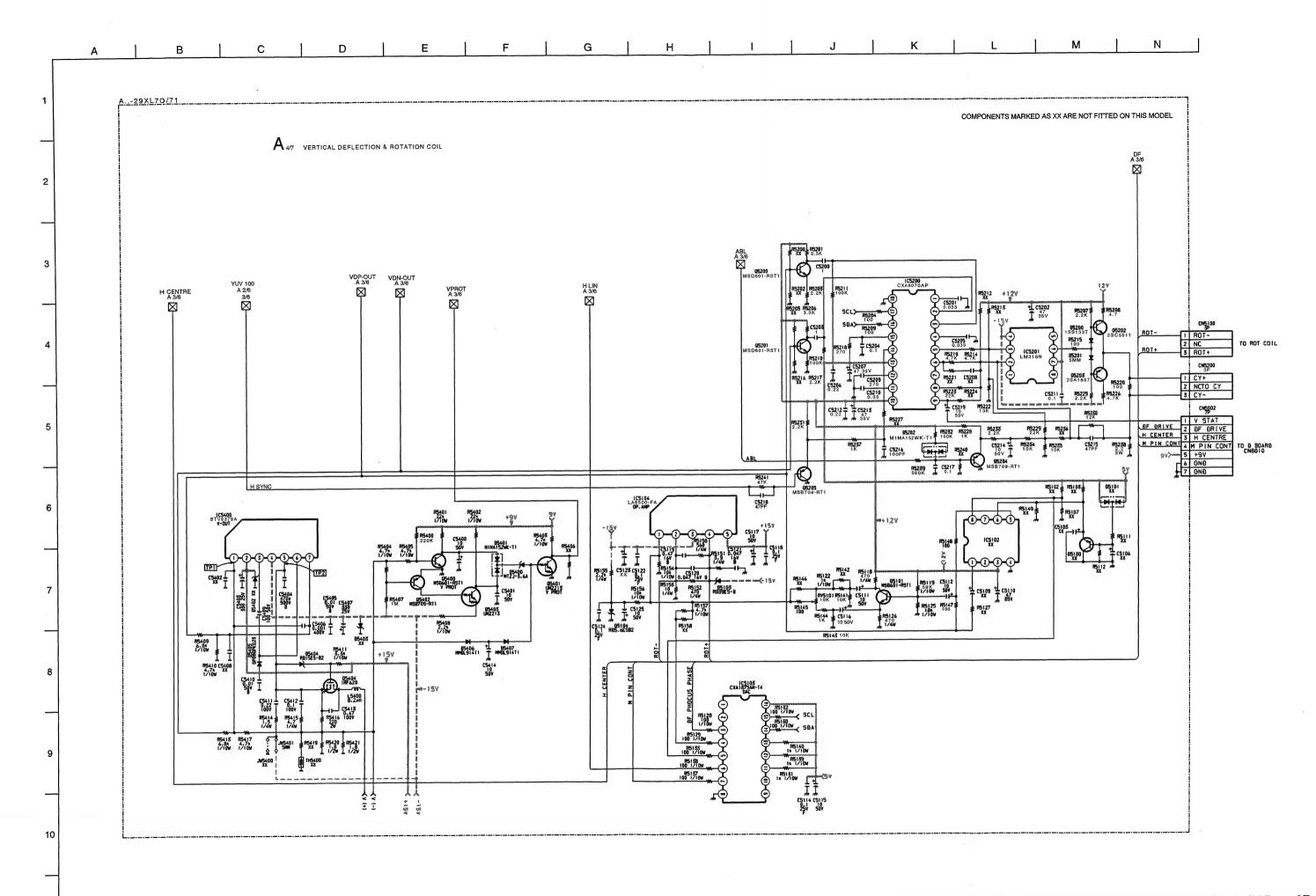
### PARTS LISTING TABLE OF CONTENTS

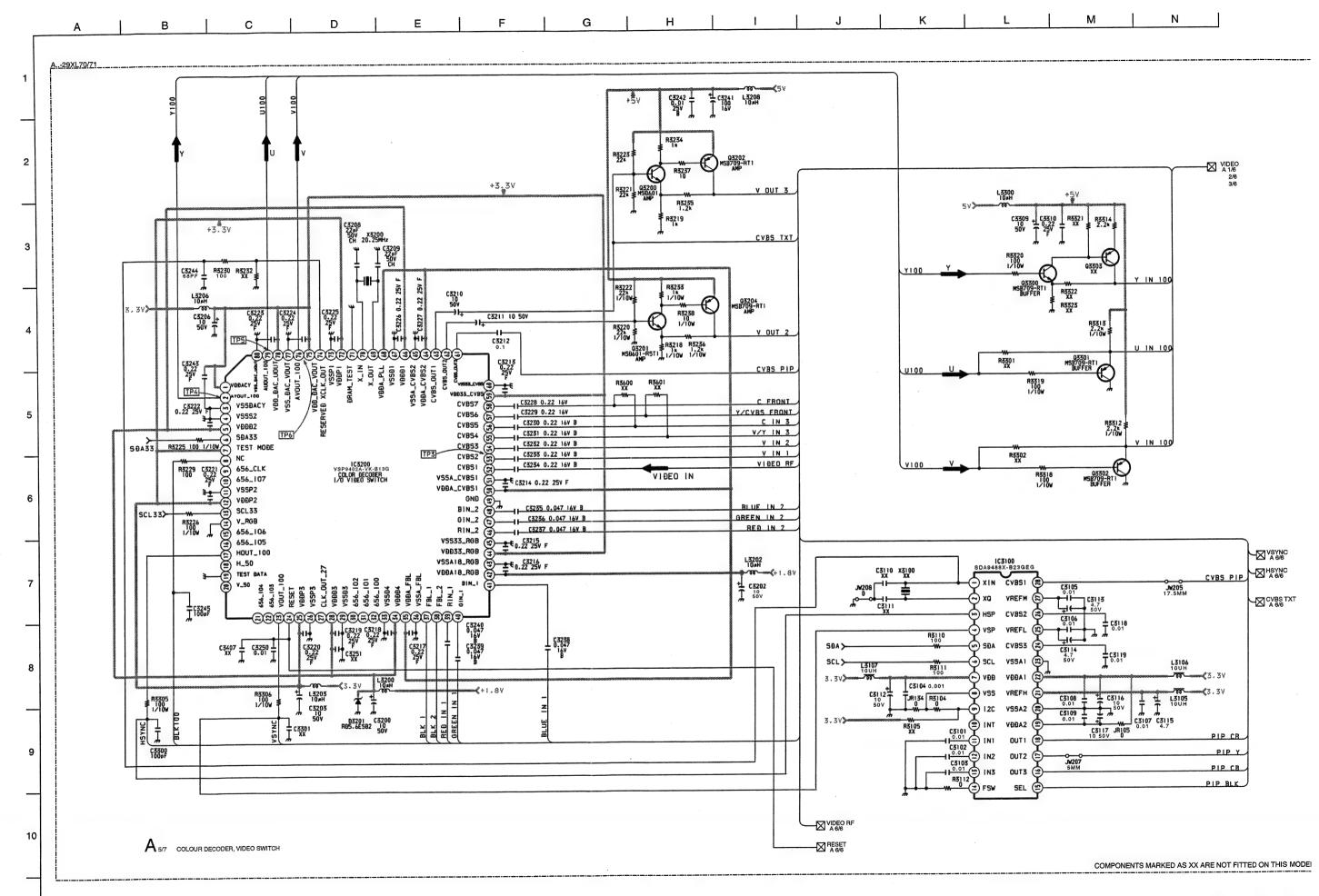
		Page
		53
H6 BOARD COMPLETE Parts List:		53
C BOARD COMPLETE Parts List:		54
F1 BOARD COMPLETE Parts List:		55
A BOARD COMPLETE Parts List:		65
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VM BOARD COMPLETE Parts List:		. 73
		73
MISCELLANEOUS: ACCESSORIES AND PACKAGING MATERI	IALS:	. 73
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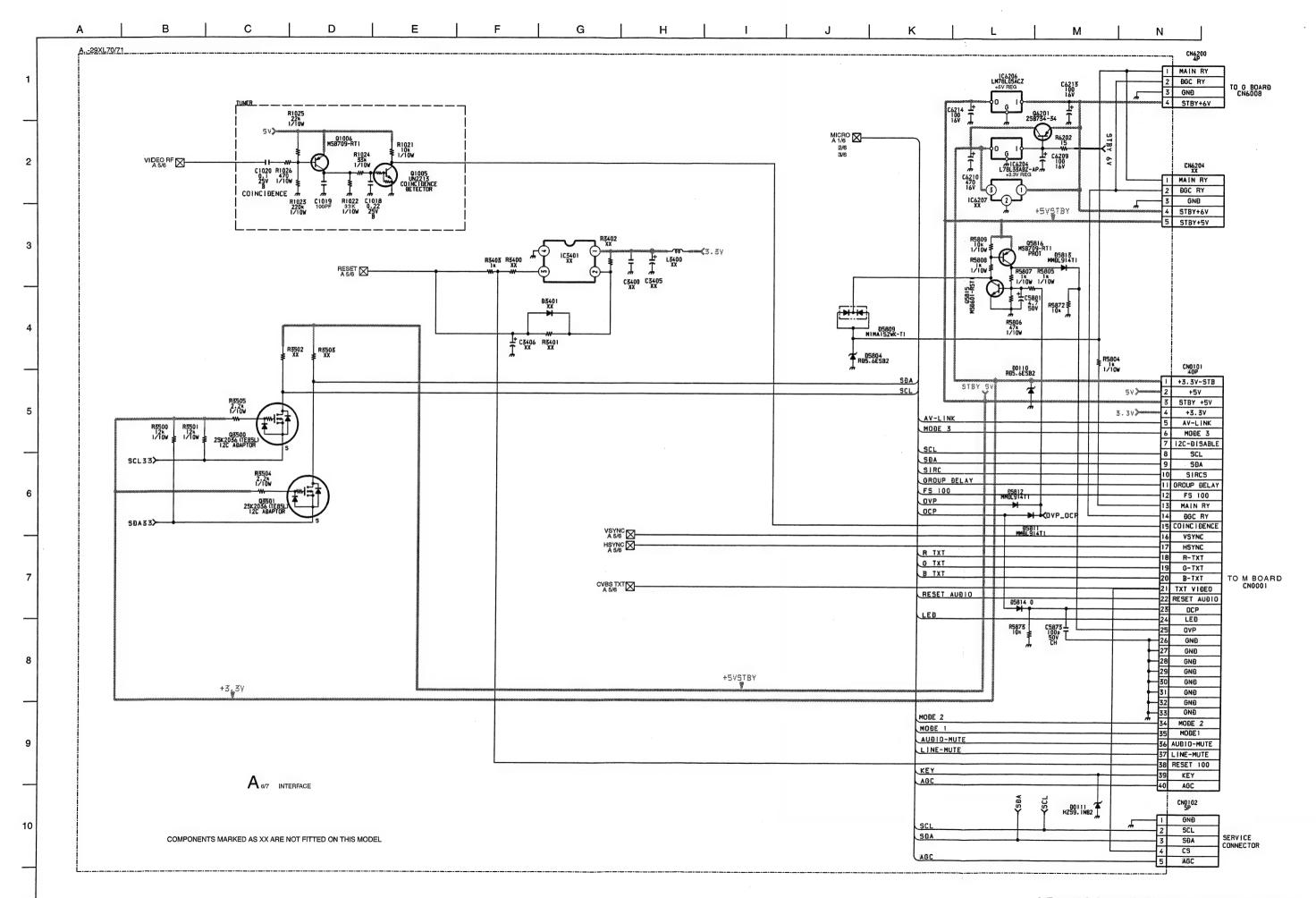


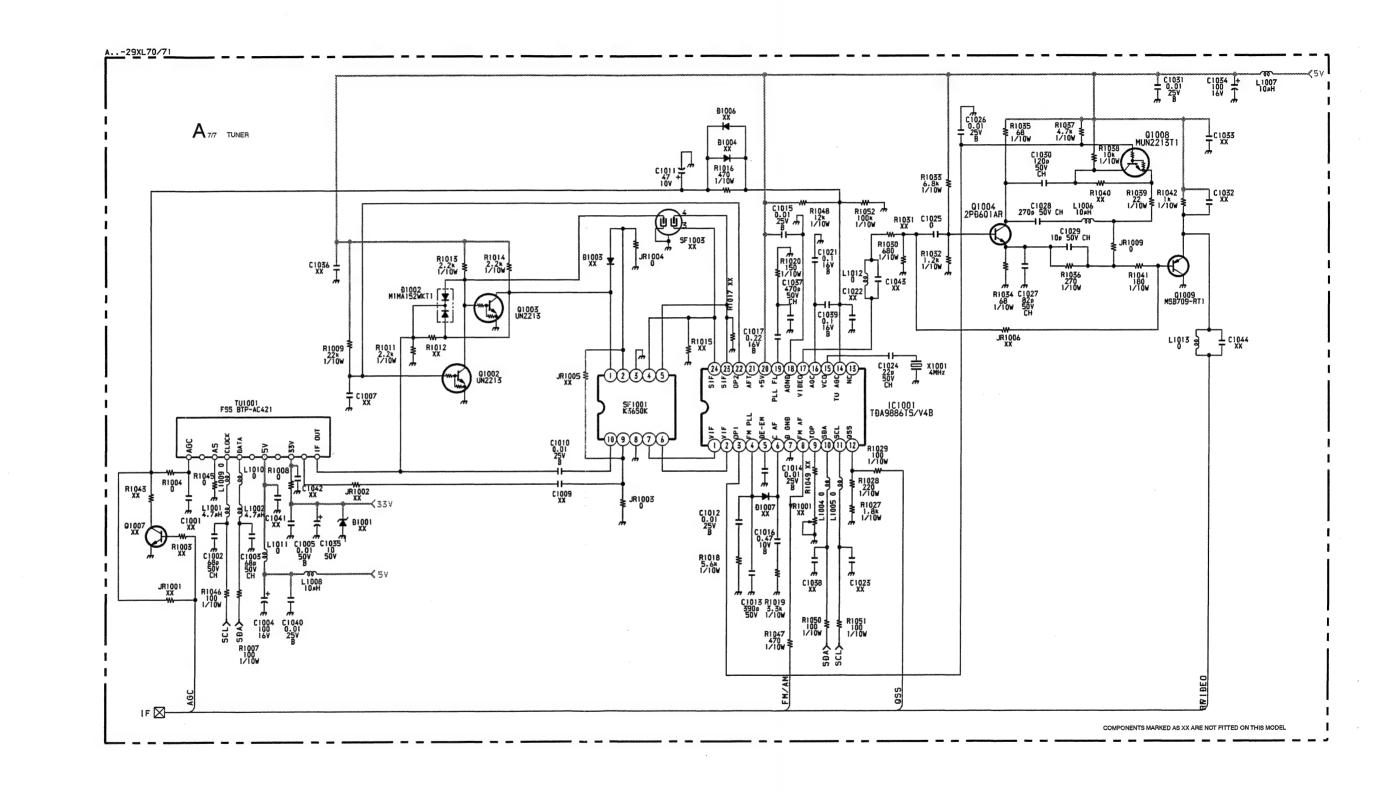
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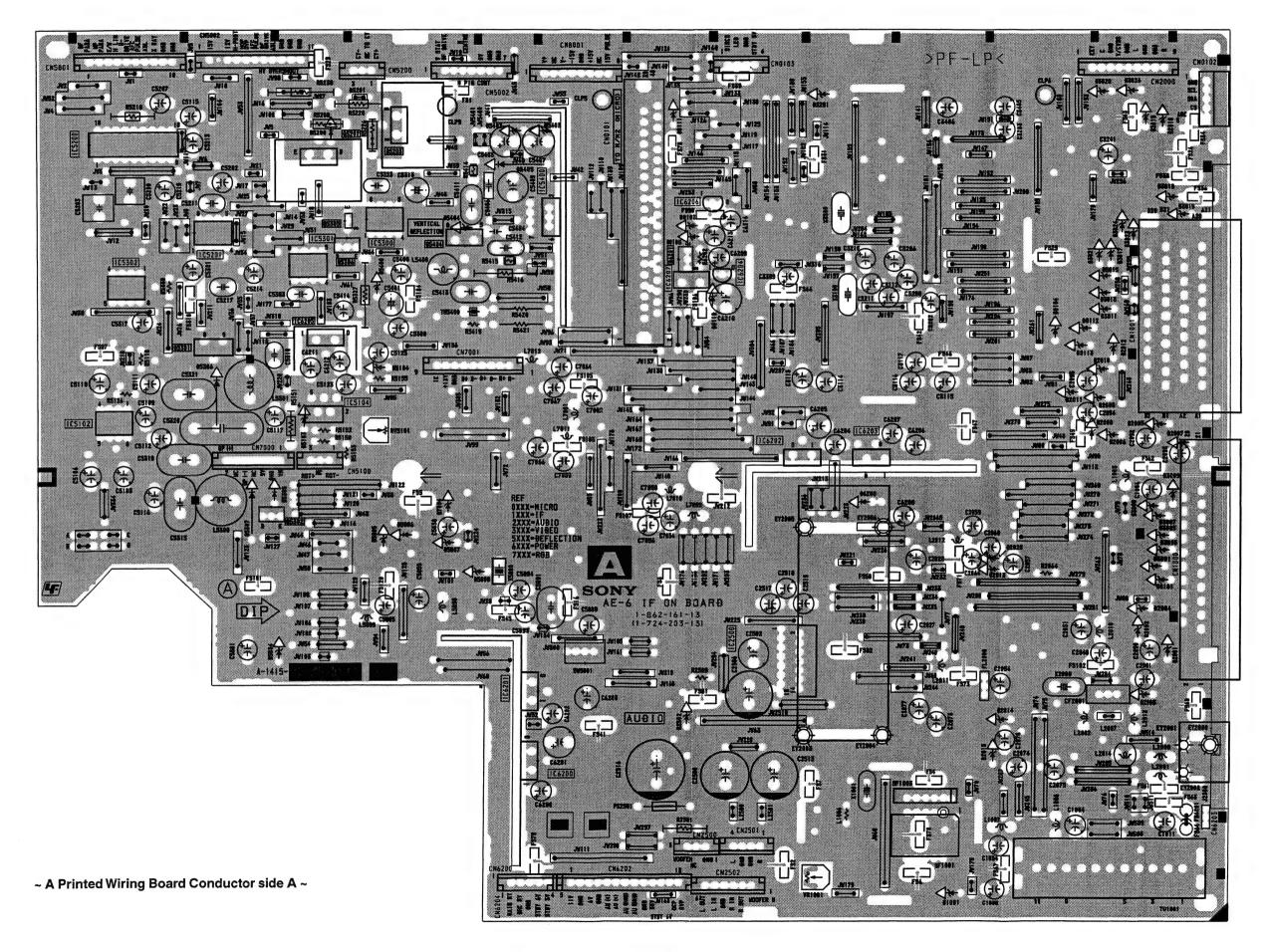








A | B | C | D | E | F | G | H | I | J | K | L | M | N



~ A Printed Wiring Board Conductor sic

# ~ A Board IC Voltage Table ~

						_	IC Voltage	Table						
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	1	1.3		6	1.8		5	9.3	IC5400	6	13.7		32	8.9
	2	1.7		7	2		6	0.5	105400	7	1.4		33	0
	3	2.6		8	0	IC5201	7	12.1		1	3.6		34	4.7
	4	0		9	3.1		8	-14.1		2	0		35	4.7
	5	2.5		10	3		1	6		3	4.4		36	4.7
	6	3.3	IC5103	11	5		2	6		4	4.8		37	8.9
	7	0		12	5		3	6		5	3.5		38	0
	8	0		13	5		4	0		6	3.4		39	4.8
	9	1.1		14	0	IC5300	5	6		7	7.6		40	4.8
	10	1.1		15	0		6	6		8	0		41	4.8
	11	0		16	5		7	6		9	0	1	42	0
	12	0		1	4.8		8	12		10	0.4		43	0
	13	0	1	2	4.9		1	1.7		11	1.8		44	0
	14	0		3	4.8		2	8.5		12	0.4	1	45	6.3
IC3100	15	0.5	ĺ	4	4.8		3	6.5		13	0.9		46	8.9
	16	0.3		5	5		4	0		14	5		47	8.9
	17	0.3		6	5	IC5301	5	6.5		15	2.5	IC7002	48	6
	18	0.3	1	7	5		6	7.1	IC7002	16	0	1	49	2.5
	19	3.3	1	8	5		7	0.4		17	3		50	4.1
	20	0		9	4.9		8	12		18	2.7	1	51	0
	21	3.3	IC5200	10	12.1		1	0		19	3.9	1	52	6
	22	3.3	1	11	4.1		2	5.8		20	0	1	53	5.8
	23	0	1	12	5		3	6.3		21	6.1	1	54	5.8
	24	3.2	1	13	5		4	0		22	2.7	1	55	0.4
	25	1.2	1	14	1.9	IC5302	5	6.6		23	8.8		56	5.8
	26	3.2	1	15	1.1		6	6.5	1	24	0	1	57	5.8
	27	2.1	1	16	0		7	0.4	1	25	4.3	1	58	5.8
	28	0.3	1	17	0		8	12	1	26	3.2		59	0.3
	1	3.3	1	18	0		1	1.4	1	27	5.2	1	60	0
	2	3.3		1	9.3		2	13.2	1	28	0.3	1	61	0
IC5103	3	1.9	1	2	3.8	IC5400	3	-12.5		29	4.9	1	62	2.9
100100	4	2.6	IC5201	3	3.8		4	-15.4	1	30	3.4		63	3.7
	5	2.5	1	4	-15.4		5	-0.4		31	5.6		-	

# ~ A Board Location Table (A Side) ~

DK	ODE	D2014	K-9	D3005	M - 7	D3017	M - 4	D3028	M - 2	D5306	C - 5	D7004	F-7	IC5301	D - 4	IC6206	H-3
D0101	M - 7	D2015	K-9	D3007	M - 7	D3018	N - 3	D3201	J - 2	D5307	C - 6	D5809	K-8	IC5302	B - 4	IC6207	H - 4
D0104	L - 4	D2018	M - 2	D3008	M - 7	D3019	N - 3	D5103	D - 6	D5400	E-4		IC	IC5400	G - 4	TRANS	SISTOR
D0110	1-4	D2019	M - 2	D3009	N - 7	D3021	M - 4	D5104	E - 5	D5404	F-3	IC5104	D-6	IC6201	G - 10	Q5202	E - 2
D0111	H - 2	D2502	H - 9	D3011	M - 4	D3023	M - 4	D5200	D - 2	D5405	F-3	IC5200	B-3	IC6202	1-6	Q5301	C - 5
D0112	M - 4	D3001	M - 7	D3013	M - 4	D3024	M - 4	D5201	E-2	D5807	F-7	IC5201	C-4	IC6203	J - 6	Q5306	E - 4
D0113	M - 5	D3003	M - 7	D3015	M - 4	D3026	M - 2	D5305	D - 6	D6200	J-6	IC5300	E-4	IC6205	D - 5	Q5404	F-4
D1006	M - 10	ı															

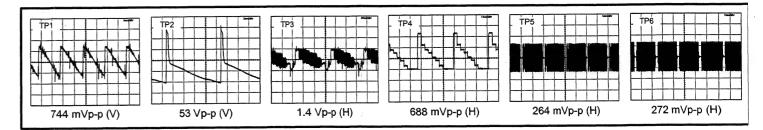
## ~ A Board Location Table (B Side) ~

	DIC	DDE	D2503	G-9	D3024	B-3	D5309	J-3	IC5103	L-3	TRAN	SISTOR	Q3201	C-2	Q5300	M - 4	Q7003	H - 6
Г	0101	B - 7	D3001	B-7	D3026	B-2	D5400	K - 4	IC5104	K - 6	Q1000	C-6	Q3202	C - 3	Q5301	L-5	Q7009	K-6
- 1	0104	C-5	D3003	B-7	D3028	C-2	D5401	J - 4	IC5200	M - 3	Q1001	D-6	Q3204	C - 3	Q5302	K-7	Q7011	J-6
1 -	0110	G - 4	D3005	B-7	D3201	F-2	D5404	J-3	IC5201	L-4	Q1004	D - 10	Q3300	F-3	Q5303	M - 4	Q7012	J-5
-	0111	G - 2	D3007	B - 6	D5103	L-6	D5405	1-3	IC5300	J - 3	Q1005	B-2	Q3301	F-3	Q5304	M - 5	Q7013	J-6
1 -	0112	C - 5	D3008	B - 6	D5104	J-5	D5809	K-8	IC5301	K - 4	Q1006	B - 3	Q3302	F-3	Q5305	K-3	Q7014	J-6
1	0113	C-5	D3009	B - 6	D5200	K-2	D5811	L-8	IC5302	M - 4	Q2000	C-9	Q3500	F-3	Q5306	K - 4	Q7015	1 - 5
1 -	1006	B - 10	D3011	C - 4	D5202	L-4	D5812	L-8	IC5400	1-3	Q2002	D - 9	Q3501	F-3	Q5400	J - 4	Q7016	1-5
	2014	C - 9	D3013	C - 4	D5300	L-5	D6200	F-7	IC6200	1-9	Q2003	D-9	Q5101	M - 5	Q5401	K - 4	Q7017	1-6
1 -	2015	D - 9	D3015	C - 4	D5303	N - 4		IC	IC6201	1-8	Q2004	E-7	Q5200	M - 4	Q5402	J - 5	Q7018	1-5
1	2016	E-8	D3017	B-4	D5304	M - 4	IC2000	C-8	IC6202	F-6	Q2005	E-7	Q5201	N - 3	Q5403	J - 4	Q7019	1-5
1 -	2018	B - 2	D3018	B-3	D5305	L-6	IC2001	D-9	IC6203	E - 6	Q2501	G-8	Q5202	K-3	Q5404	J - 4		
1 -	2019	B - 2	D3019	B-3	D5306	L-5	IC2500	F-8	IC6205	K - 5	Q2502	G - 9	Q5203	J-2	Q5813	J - 8	1	
1 -	2500	G - 9	D3021	C - 4	D5307	L-7	IC3100	E - 5	IC6206	G - 3	Q2503	G-9	Q5204	L-4	Q5815	L-8	1	
-	2502	G - 9	D3023	B-3	D5308	M - 4	IC3200	E-3	IC6207	G - 4	Q3200	C-3	Q5205	M - 3	Q5816	L-8	]	

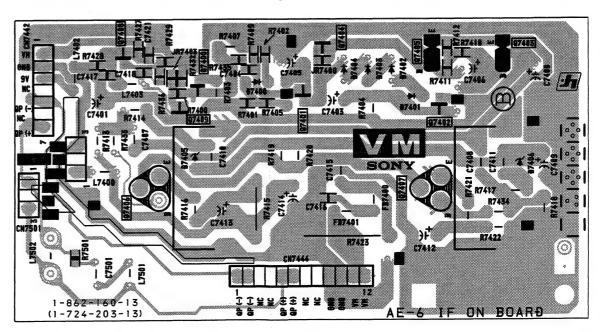
## ~ A Board Semiconductor Voltage Table ~

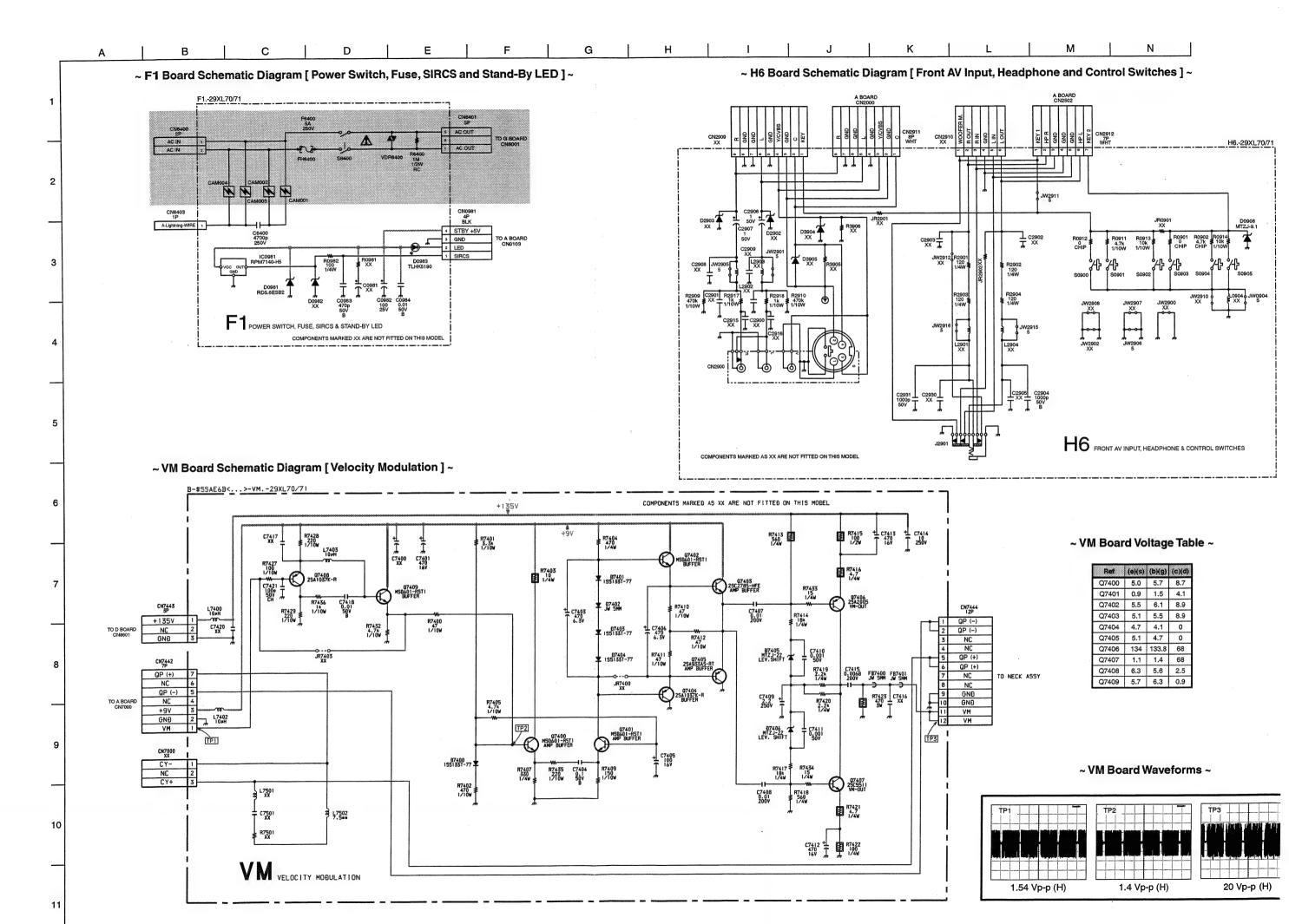
Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
Ref	(e)	(b)	(c)	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	8.0	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
Q2000	4.2	4.8	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

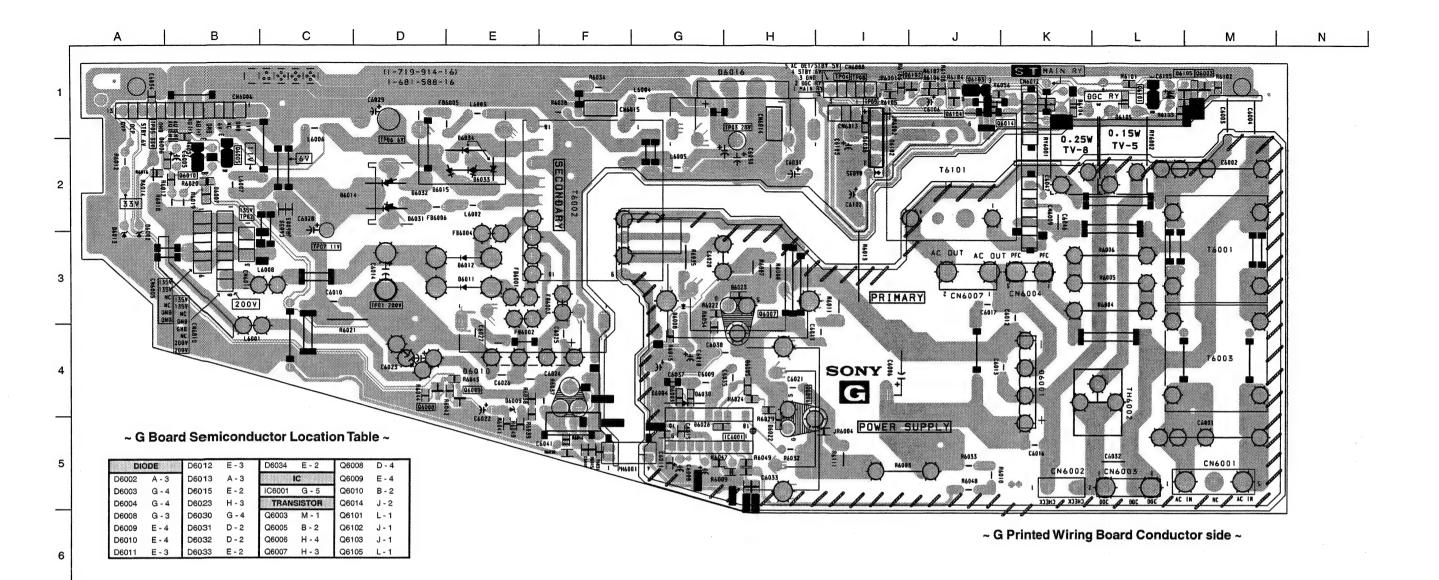
## ~ A Board Waveforms ~

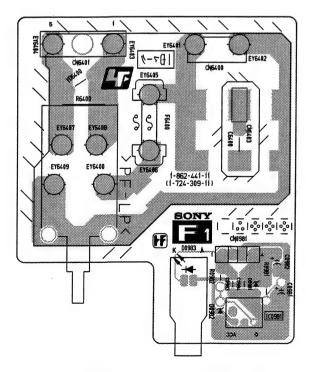


# ~ VM Printed Wiring Board Conductor side ~





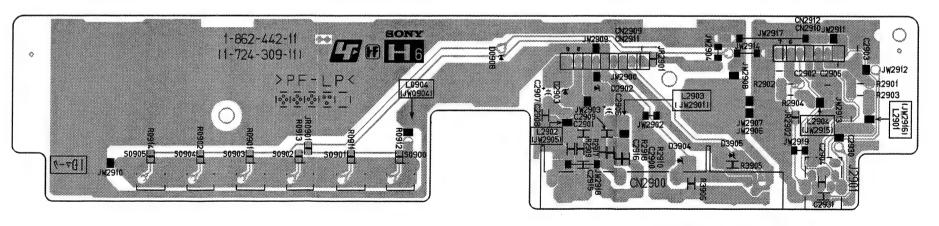




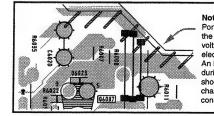
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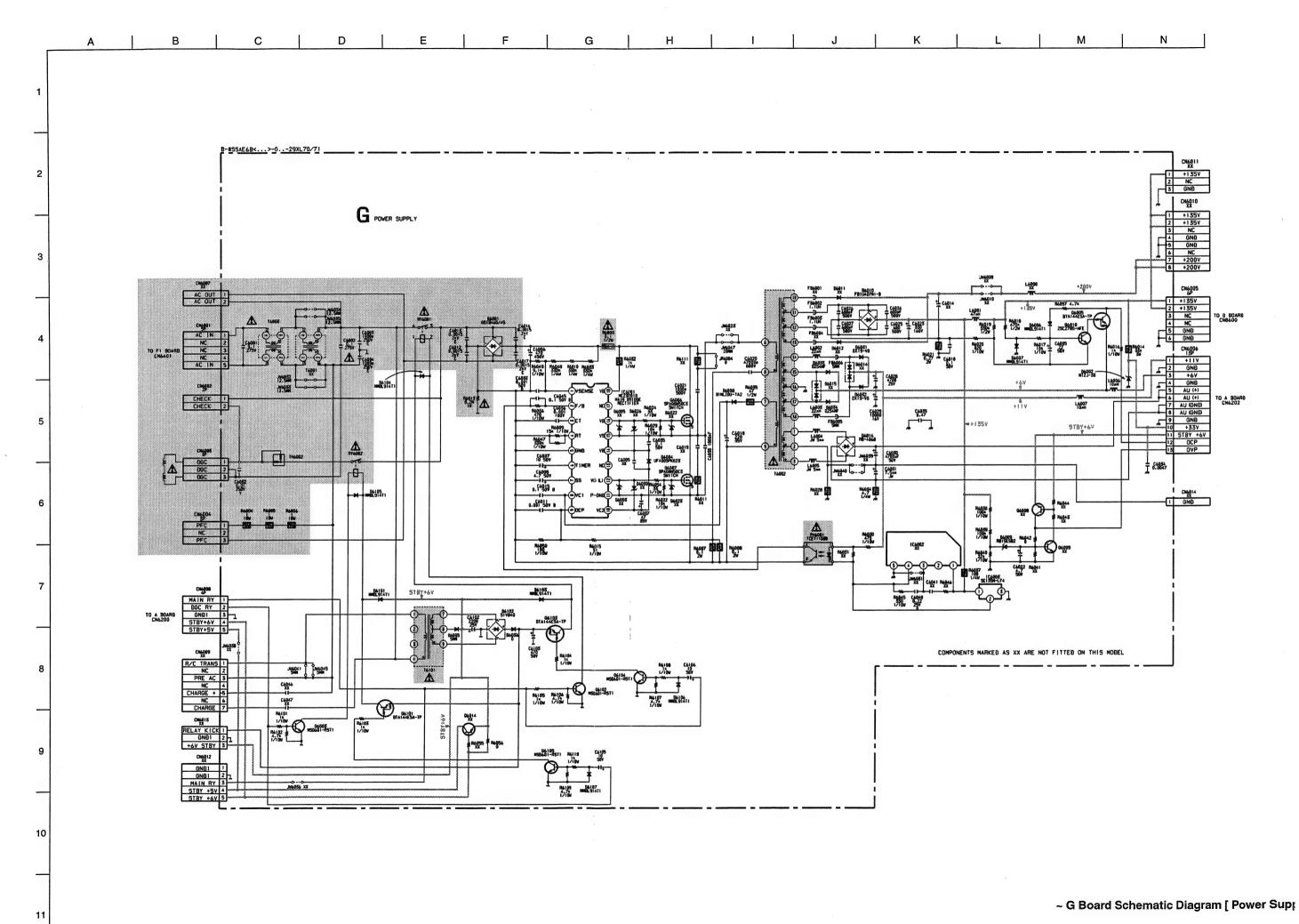
~ F1 Printed Wiring Board Conductor side ~

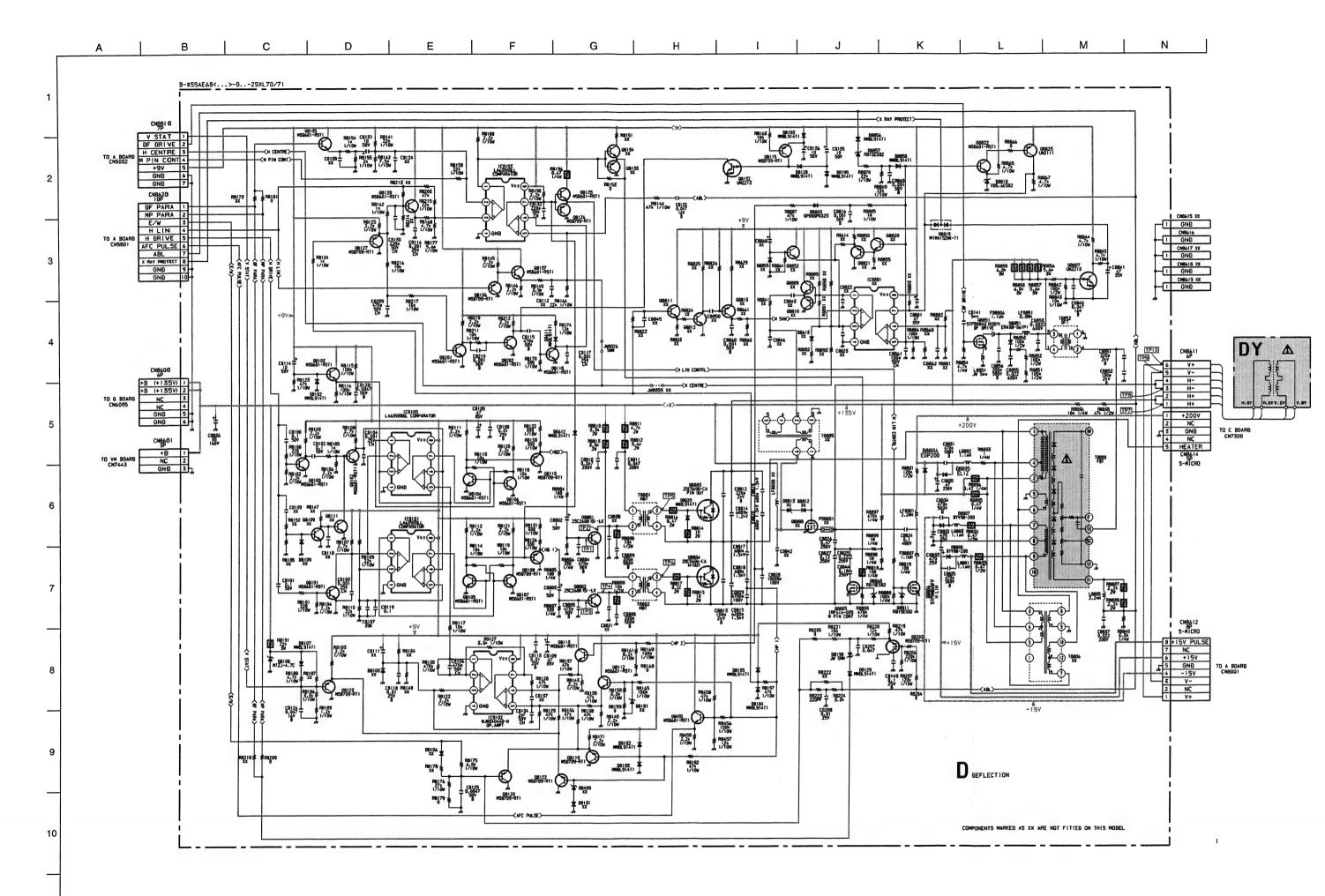


~ H6 Printed Wiring Board Conductor side ~

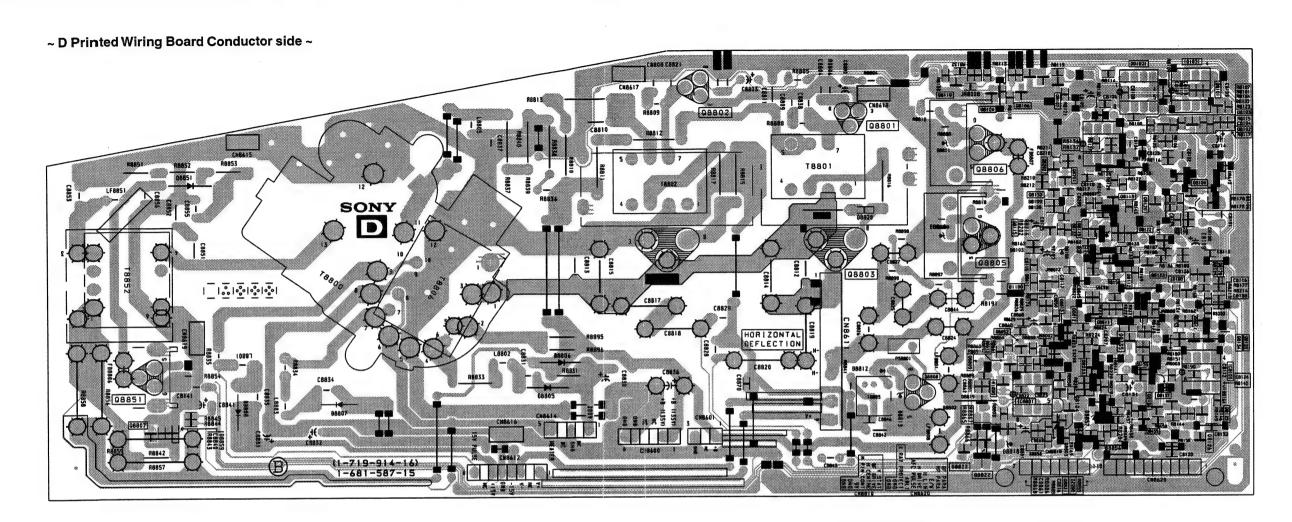


Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent voltages present ose date to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.

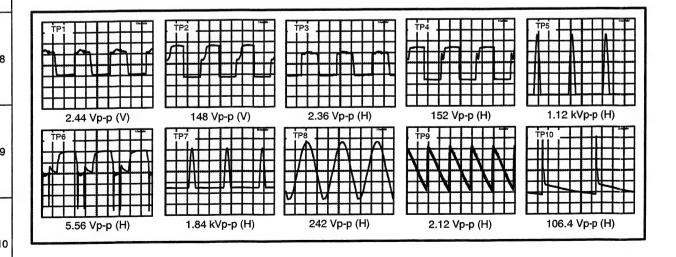




A | B | C | D | E | F | G | H | I | J | K | L | M | N



#### ~ D Board Waveforms ~

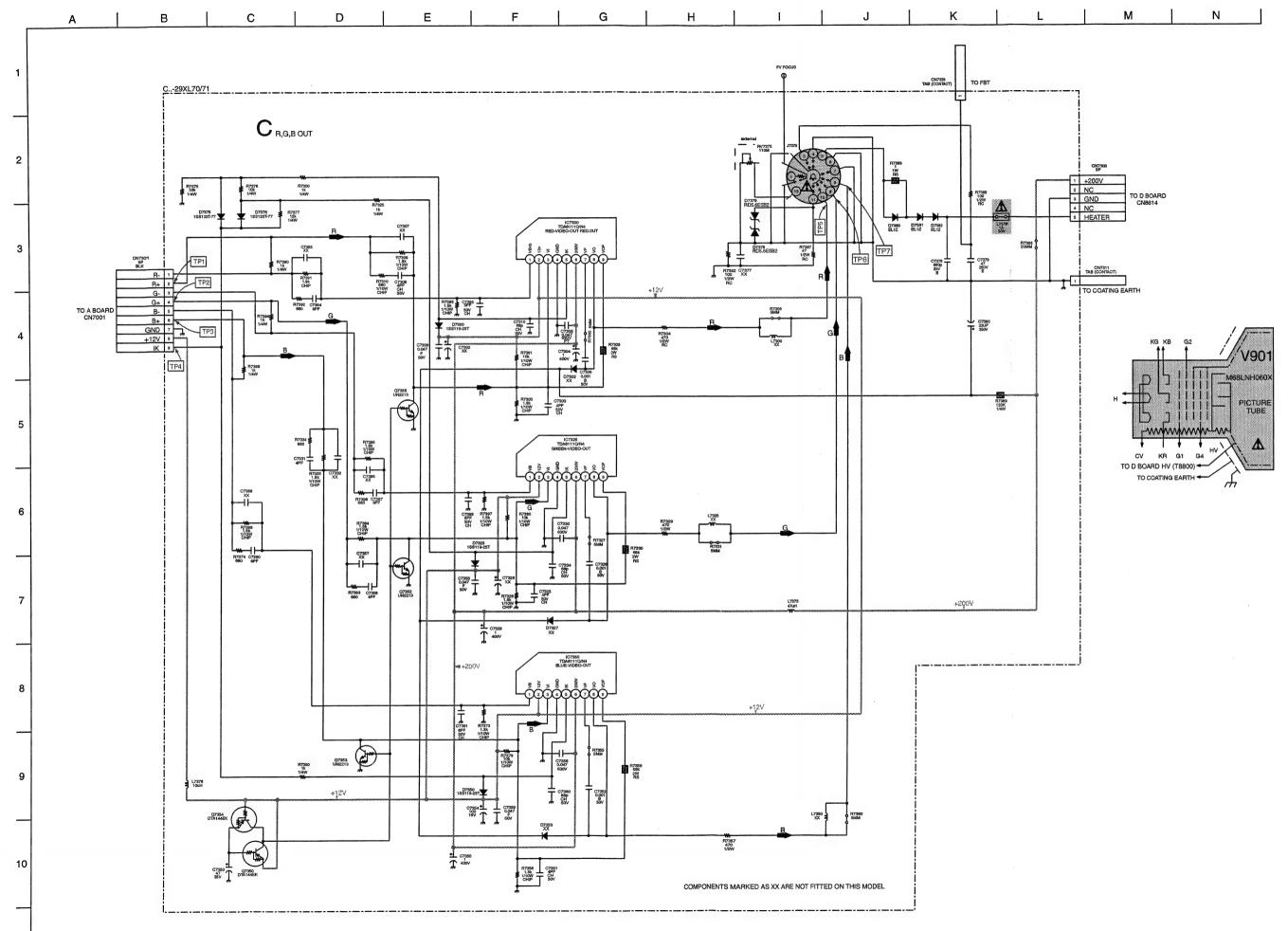


## ~ D Board IC Voltage Table ~

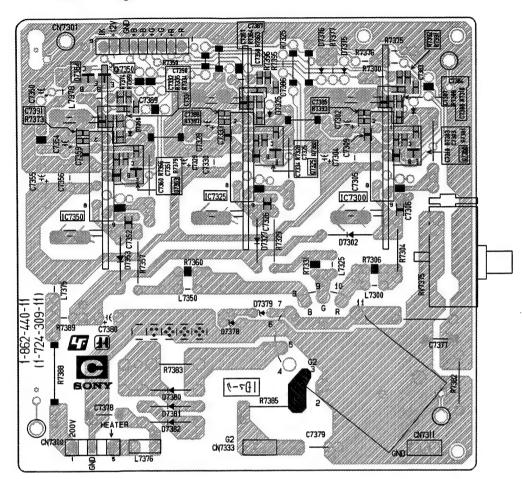
IC	Voltage	Table
Ref No	Pin No	Voltage (V)
	1	0.3
	2	4.3
IC8100	3	4.1
100100	5	4.1
	6	3.0
	7	0.4
	1	0.3
	2	4.3
IC8101	3	4.4
IGO IU I	5	4.4
	6	3.0
	7	0.4
	1	4.1
	2	0.4
C8102	3	0.4
100102	5	0.4
	6	0.4
	7	0.4
	1	2.5
	2	2.1
C8103	3	1.7
	5	1.6
	6	1.0
	7	1.1

### ~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(ç
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	≠ <b>8.</b> 5
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4



#### ~ C Printed Wiring Board Conductor side ~



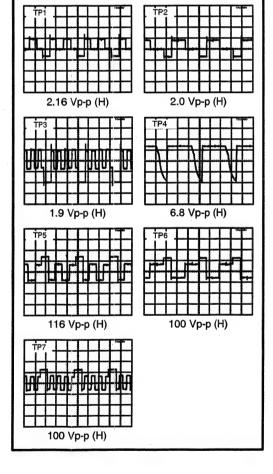
#### ~ C Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)
Q7350	12	11.98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
07355	0	0	3.8

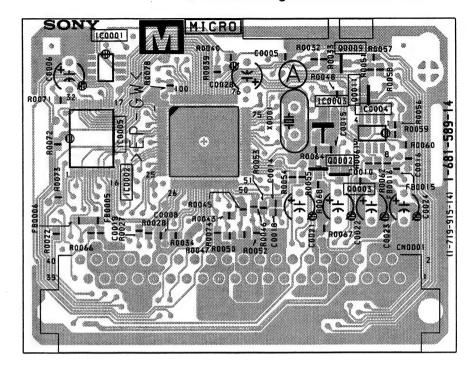
#### ~ C Board IC Voltage Table ~

IC	Voltage	Table
Ref No	Pin No	Voltage (V)
	1	3.9
	3	3.8
	5	7.5
IC7300	6	200
	7	140
	8	153
	9	140
	1	3.9
	3	3.8
	5	7.7
IC7325	6	200
	7	140
	8	153
	9	140
	1	3.9
	3	3.8
	5	7.5
IC7350	6	200
	7	139
	8	148
	9	138

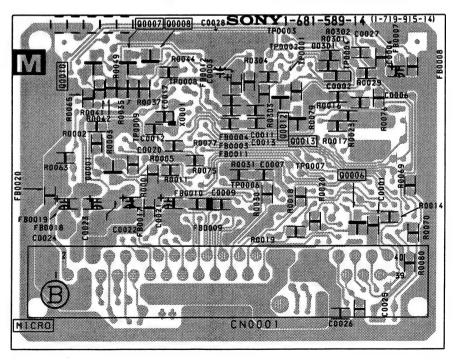
#### ~ C Board Waveforms ~

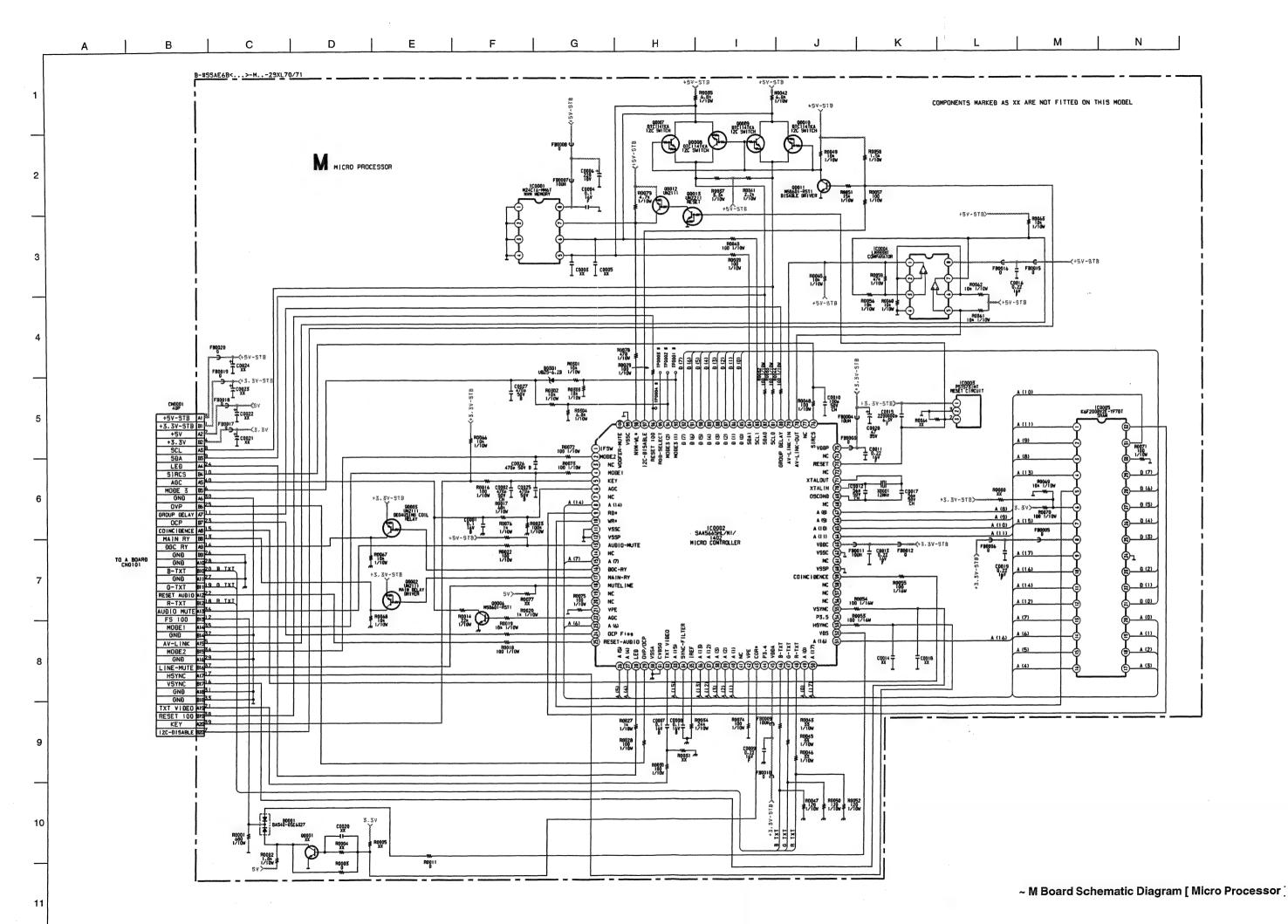


#### ~ M Printed Wiring Board Conductor side A ~



## $\sim$ M Printed Wiring Board Conductor side B $\sim$







REF.NO.	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK	
* A-10	55-452-A H6 Bc	ard Complete			C7304	1-107-967-11	ELECT	1UF	20.00%	400V
					C7305	1-136-207-11	MYLAR	0.047UF	5.00%	630V
	< CAPAC	CITOR >			C7306	1-163-009-91	CERAMIC CHIE	0.001UF	10.00%	50V
					C7308	1-162-909-11	CERAMIC CHIE	4PF	0.25PF	50V
C2904	1-162-964-11	CERAMIC CHIP 0.00	1UF	10.00% 50V	C7309	1-163-035-00	CERAMIC CHIE	0.047UF		50V
C2906	1-126-960-11	ELECT 1UF		20.00% 50V						
C2907	1-126-960-11	ELECT 1UF		20.00% 50V	C7310	1-163-247-91	CERAMIC CHIE		5.00%	
C2931	1-162-964-11	CERAMIC CHIP 0.00	1UF	10.00% 50V	C7325	1-162-909-11	CERAMIC CHIE		0.25PF	
					C7326	1-163-009-91	CERAMIC CHIE		10.00%	
	< CONN	ECTOR >			C7329	1-107-967-11	ELECT	1UF	20.00%	
					C7330	1-136-207-11	MYLAR	0.047UF	5.00%	6307
CN2900	1-779-947-11	TERMINAL BLOCK,				4 440 000 44			A AF5=	F.A
CN2911	* 1-564-511-11	PLUG, CONNECTOR			C7331	1-162-909-11	CERAMIC CHIE		0.25PF	
CN2912	* 1-564-510-11	PLUG, CONNECTOR	P		C7333	1-163-035-00	CERAMIC CHIE		E 000.	50V
					C7334	1-163-247-91 1-126-947-11	CERAMIC CHIE	47UF	5.00% 20.00%	
	< DIODI	\$ >			C7350	1-126-947-11	CERAMIC CHI		0.25PF	
-	0 710 000 60	DIONE MET E 77	111		C7351	1-102-909-11	CERAMIC CHI	472	V.23FE	304
D0908	8-719-923-60	DIODE MTZJ-T-77-	, IA		C7352	1-163-009-91	CERAMIC CHIE	0 0011111	10.00%	500
	2 COCIT	7M \			C7354	1-126-933-11	ELECT	100UF	20.00%	
	< SOCK	MT >			C7355	1-107-967-11	ELECT	1UF	20.00%	
J2901	1-750-264-11	JACK			C7356	1-136-207-11	MYLAR	0.047UF	5.00%	
32301	1-/50-204-11	UNCK			C7358	1-162-909-11	CERAMIC CHI		0.25PF	
	< RESI	STOR >			0,550	2 202 303 22	<b>January January</b>		7.2011	
	( 1202)	, , , , , , , , , , , , , , , , , , ,			C7359	1-163-035-00	CERAMIC CHIL	0.047UF		50V
R0901	1-216-864-11	SHORT CHIP 0			C7360	1-163-247-91	CERAMIC CHIL	68PF	5.00%	50V
R0902	1-216-829-11		7K 5%	1/10W	C7378	1-162-116-00	CERAMIC	680PF	10.00%	2KV
R0911	1-216-829-11		7K 5%	1/10W	C7379	1-162-114-00	CERAMIC	0.0047UF		2KV
R0912	1-216-864-11	SHORT CHIP 0		•	C7380	1-107-655-11	ELECT	47UF	20.00%	250V
R0913	1-216-833-11	METAL CHIP 10	₹ 5%	1/10W						
•					C7384	1-162-911-11	CERAMIC CHIE	6PF	0.50PF	50V
R0914	1-216-833-11	METAL CHIP 10	₹ <b>5</b> %	1/10W	C7385	1-162-913-11	CERAMIC CHIE	8PF	0.50PF	50V
R2901	1-249-406-11	CARBON 12	5%	1/4W	C7387	1-162-911-11	CERAMIC CHIE	6PF	0.50PF	50V
R2902	1-249-406-11	CARBON 12	5%	1/4W	C7388	1-162-913-11	CERAMIC CHIE	8PF	0.50PF	50V
R2903	1-249-406-11	CARBON 12	5%	1/4W	C7390	1-162-911-11	CERAMIC CHIE	6PF	0.50PF	50V
R2904	1-249-406-11	CARBON 12	5%	1/4W	1					
					C7391	1-162-913-11	CERAMIC CHIL	8PF	0.50PF	50₹
R2909	1-216-853-11		)K 5%	1/10W						
R2910	1-216-853-11		)K 5%	1/10W		< COA	TING LEAD >			
R2917	1-216-821-11	METAL CHIP 1K		1/10W		+ 4 100 000 01	DEN (20)			
R2918	1-216-821-11	METAL CHIP 1K	5%	1/10W	CL7301 CL7303	* 4-102-022-01 * 4-102-022-01	PIN(30), WIF			
	4 ATTEN	917			CE/303	* 4-102-022-01	PIN(30), WIF	T.		
	< SWIT	LH >				< 000	NECTOR >			
00000	1-692-431-21	SWITCH, TACTILE				\ COM	MBCION >			
S0900	1-692-431-21	SWITCH, TACTILE			CN7300	* 1-564-508-11	PLUG, CONNEC	TOR SP		
\$0901 \$0902	1-692-431-21	SWITCH, TACTILE			CN7301	* 1-564-512-11	PLUG, CONNEC			
S0902 S0903	1-692-431-21	SWITCH, TACTILE			CN7311	1-695-915-11	TAB (CONTACT			
S0903	1-692-431-21	SWITCH, TACTILE			CN7333	1-695-915-11	TAB (CONTACT			
30304	1 052 451 21	billion, morale				2 333 323 22	(********************************	•		
s0905	1-692-431-21	SWITCH, TACTILE				< DIO	DE >			
* A 10	)55-968-A C Bo	ard Complete			D7300	8-719-911-19	DIODE 1SS119	-25		
A-10	733-300-A C DU	ara complete			D7300	8-719-911-19	DIODE 188119			
	4-382-854-01	SCREW (M3X8), P,	SW (+)		D7323	8-719-911-19	DIODE 188119			
	4 200 034 VI	Joseph (Markot) , 1 ,	-·· (1)		D7375	8-719-991-33	DIODE 1SS133			
	< CAPA	CITOR >			D7376	8-719-991-33	DIODE 188133			
C7303	1-162-909-11	CERAMIC CHIP 4PF		0.25PF 50V	D7378	8-719-109-89	DIODE RD5.6E	SB2		

1-216-824-11

R7364

METAL CHIP 1.8K 5% 1/10W

C	F1

REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK	
D7379	8-719-109-89	DIODE RD5.6ES	3B2			R7373	1-216-823-11	METAL CHIP	1.5K		1/10W	
D7380	8-719-302-43	DIODE EL1Z				R7374	1-216-819-11	METAL CHIP	680	5%	1/10W	
D7381	8-719-302-43	DIODE EL1Z				R7375	1-249-435-11	CARBON	33K	5%	1/4W	
D7382	8-719-302-43	DIODE EL1Z				R7376	1-249-429-11	CARBON	10K	5%	1/4W	
	. = .					R7377	1-249-430-11	CARBON	12K	5%	1/4W	
	< IC :	>				R7379	1-216-833-11	METAL CHIP	10K	5%	1/10W	
IC7300	8-759-360-83	IC TDA6111Q/N	14			R7380	1-216-833-11	METAL CHIP	10K	5%	1/10W	
IC7325	8-759-360-83	IC TDA61110/N				R7381	1-216-833-11	METAL CHIP	10K	5%	1/10W	
IC7350	8-759-360-83	IC TDA6111Q/N				R7382	1-202-549-00	SOLID	100	20%	1/2W	
10/330	0 755 500 05	20 22222227	••			R7383	1-216-349-00	METAL OXIDE	1	5%	1W	
	< SOC	KET >				77205	1 000 540 00	407 TD	100	200	1 /01	
						R7385	1-202-549-00	SOLID	100	20%	1/2W	
J7375 A	1-251-732-11	SOCKET, CRT				R7387	1-247-735-11	CARBON	47	5%	1/2W	
						R7388	1-535-143-51	LEAD, JUMPE	•		- 1-	
	< COI:	r >				R7389	1-247-881-00	CARBON	120K	5%	1/4W	
	4 440 684 04		4700	•		R7390	1-249-417-11	CARBON	1K	5%	1/4W	
L7375 L7376 Z	1-410-671-31 1-532-637-00	INDUCTOR IC LINK	47U 1A	**********	OV	R7391	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
L7378	1-414-934-21	INDUCTOR	100	H		R7392	1-216-819-11	METAL CHIP	680	5%	1/10W	
2,570				_		R7393	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
	< TRA	NSISTOR >				R7394	1-249-417-11	CARBON	1K	5%	1/4W	
	`	MDIDION /				R7395	1-216-824-11	METAL CHIP	1.8K		1/10W	
07250	8-729-901-06	TRANSISTOR DI	רא <i>1 A א</i> פו	7		X1333	1 210 024 11	mini onii	2.020	•	±/ ±4//	
Q7350	8-729-421-19	TRANSISTOR UN				R7396	1-216-819-11	METAL CHIP	680	5%	1/10W	
Q7352		TRANSISTOR UN				R7397	1-216-823-11	METAL CHIP	1.5K		1/10W	
Q7353	8-729-421-19			,		1	1-249-417-11	CARBON	1. JK	5%	1/4W	
Q7354	8-729-901-06	TRANSISTOR DI		K		R7398						
Q7355	8-729-421-19	TRANSISTOR UN	12213			R7399	1-216-824-11	METAL CHIP	1.8K	24	1/10W	
	< RES	ISTOR >					< RES	ISTOR VARIABLE >				
R7300	1-249-417-11	CARBON	1K	5%	1/4W	RV7375	1-241-656-11	RES, ADJ, M	ETAL FIL	M 110	M	
R7302	1-535-303-00	LEAD, JUMPER										
R7303	1-216-824-11	METAL CHIP	1.8K		1/10W	* A-10	55-970-A F1 B	oard Complet	e			
R7304	1-260-095-11	CARBON	470	5%	1/2W							
R7305	1-215-903-11	METAL OXIDE	68K	5%	2W		4-206-220-01	HOLDER, LED				
	1 505 000 00		/F 01m				* 4-374-846-01	COVER, CAPA	CITOR, C	AP TY	PE	
R7306	1-535-303-00	LEAD, JUMPER	•	•	4 /4 App		/ C107	ACITOR >				
R7309	1-216-824-11	METAL CHIP	1.8K		1/10W		CAP	CIIOR >				
R7310	1-216-819-11	METAL CHIP	680	5%	1/10W	20000	1 104 CCE 11	DI DOM	10000		20.00% 257	**
R7325	1-249-417-11	CARBON	1K	5%	1/4W	C0982	1-104-665-11	ELECT	100UF			
R7327	1-535-303-00	LEAD, JUMPER	(5.0M	M)		C0983	1-102-114-00	CERAMIC	470PF		10.00% 507	
						C0984	1-102-129-00	CERAMIC	0.01UF		10.00% 507	
R7328	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	C6400	1-113-924-11	CERAMIC	0.0047	UF	20.00% 250	JV
R7329	1-260-095-11	CARBON	470	5%	1/2W							
R7330	1-215-903-11	METAL OXIDE	68K	5%	2W		< CONT	IECTOR >				
R7331	1-535-303-00	LEAD, JUMPER	(5.0M	1)								
R7334	1-216-819-11	METAL CHIP	680	5%	1/10W	CN0981	* 1-564-507-11	PLUG, CONNE				1
D700E	1_01 &_004 11	METAL CHIP	1.8K	EQ.	1/10W	1	ል * 1-580-843-11 ል * 1-691-291-11	PIN, CONNEC PIN, CONNEC			) 5P	
R7335	1-216-824-11	CARBON	1. ok	5%	1/10W 1/4W	CN6403	1-695-915-11	TAB (CONTAC			•	
R7350	1-249-417-11				T/ 3H	2010-203	_ ,,,, ,,,, ,,,	Jonino	-1			
R7355	1-535-303-00	•	(5.0M)	•	1 /1 000		< DIOD	IR >				
R7356	1-216-824-11	METAL CHIP	1.8K		1/10W		/ D10D					
R7357	1-260-095-11	CARBON	470	5%	1/2W	D0981	8-719-109-89	DIODE RD5.6	ESB2			
R7358	1-215-903-11	METAL OXIDE	68K	5%	2W	D0983	8-719-082-12	DIODE TLHK5:				
		LEAD, JUMPER			±11							
R7360	1-535-303-00	·	(5.0mm	1) 5%	1/10W							
R7363	1-216-819-11	METAL CHIP	000	J6	1/10W							

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

F1 A	
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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	< FUSE	<b>&gt;</b>		C1034	1-126-933-11	ELECT 100UF	20.00% 16V
		•		C1035	1-126-964-11	ELECT 10UF	20.00% 50V
<b>F64</b> 00 Z	1-576-232-12	FUSE 5	A 250V	C1037	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
FH6400 Z		FUSE HOLDER		C1039	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
EMOSON L		•		C1040	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
	< IC >	•			5 555 577 55		
				C2000	1-162-968-11	CERAMIC CHIP 0.0047U	10.00% 50V
IC0981	6-600-129-01	IC RPM7140-H5		C2001	1-162-968-11	CERAMIC CHIP 0.0047U	10.00% 50V
				C2006	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
	< RESI	STOR >		C2007	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
			_	C2008	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
R0982	1-247-807-31	CARBON 100 5			4 4 60 404 44	A	10 000 50**
R6400 Z	A 1-202-719-00	SOLID 1M 1	0% 1/2W	C2009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C2010	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
	< SWIT	CH >		C2011	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
				C2012	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
S6400 /	A 1-571-433-21	SWITCH, PUSH (AC POWE	K)	C2013	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
	< VARI	ISTOR >		C2014	1-164-346-11	CERAMIC CHIP 1UF	16V
				C2015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
VDR6400	A 1-803-830-11	VARISTOR (ERZV14D621)		C2016	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
				C2018	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
* A-16	32-952-A A Bo	ard Complete		C2019	1-164-346-11	CERAMIC CHIP 1UF	16V
	4-382-854-01	SCREW (M3X8), P, SW (	+)	C2021	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
				C2022	1-162-966-11	CERAMIC CHIP 0.0022UI	
	< CAP	ACITOR >		C2023	1-162-966-11	CERAMIC CHIP 0.0022UI	
			F AAA FATT	C2024	1-164-346-11	CERAMIC CHIP 1UF	16V
C1002	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C1003	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V				00 000 000
C1004	1-126-933-11	ELECT 100UF	20.00% 16V	C2027	1-126-947-11	ELECT 47UF	20.00% 35V
C1005	1-163-021-91	CERAMIC CHIP 0.01UF ELECT 100UF	10.00% 50V 20.00% 16V	C2028	1-126-947-11	ELECT 47UF CERAMIC CHIP 1UF	20.00% 35V 16V
C1006	1-126-933-11	ETECI 10005	20.00% 100	C2029	1-164-346-11	CERAMIC CHIP 10F	10.00% 50V
C1008	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2031 C2034	1-162-962-11 1-164-346-11	CERAMIC CHIP 1UF	10.00% 30V 16V
C1000	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 35V	C2034	1-104-340-11	CERMIC CHIP IOF	104
C1011	1-126-947-11	ELECT 47UF	20.00% 35V	C2035	1-164-346-11	CERAMIC CHIP 1UF	16V
C1012	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2038	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1012	1-163-131-00	CERAMIC CHIP 390PF	5.00% 50V	C2039	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
01013	1 100 101 00			C2040	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1014	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2041	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C1015	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V		2 232 333 22		
C1016	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V	C2042	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C1017	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V	C2043	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C1018	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C2044	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C2046	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1019	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2047	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C1021	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C2048	1-126-947-11	ELECT 47UF	20.00% 35V
C1024	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	C2049	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V
C1025	1-216-864-11	SHORT CHIP 0		C2050	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
				C2051	1-126-964-11	ELECT 10UF	20.00% 50V
C1026	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1027	1-162-926-11	CERAMIC CHIP 82PF	5.00% 50V				
C1028	1-164-388-91	CERAMIC CHIP 270PF	5.00% 50V	C2053	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C1029	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V	C2054	1-126-947-11	ELECT 47UF	20.00% 35V
C1030	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V	C2055	1-162-968-11	CERAMIC CHIP 0.0047UE	
			44 444 45	C2057	1-126-964-11	ELECT 10UF	20.00% 50V
C1031	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	1-126-964-11	ELECT 10UF	20.00% 50V	C2523	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2059		ELECT 47UF	20.00% 35V	C3101	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2060	1-126-947-11			C3102	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2061	1-162-968-11	CERAMIC CHIP 0.00470		1		***************************************	
C2062	1-164-346-11	CERAMIC CHIP 1UF	167	C3103	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2063	1-164-346-11	CERAMIC CHIP 1UF	16V	C3104	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
*****	1 100 004 11	ELECT 10UF	20.00% 50V	C3105	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2064	1-126-964-11			C3106	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2065	1-162-966-11	CERAMIC CHIP 0.00220		1	1-163-021-91		
C2066	1-162-966-11	CERAMIC CHIP 0.00220		C3107		CERAMIC CHIP 0.01UF	10.00% 50V
C2069	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3108	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2073	1-126-960-11	ELECT 1UF	20.00% 50V	C3109	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2074	1-126-960-11	ELECT 1UF	20.00% 50V	C3112	1-126-964-11	ELECT 10UF	20.00% 50V
C2075	1-126-960-11	ELECT 1UF	20.00% 50V	C3113	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2077	1-126-960-11	ELECT 1UF	20.00% 50V	C3114	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2077	1-126-963-11	ELECT 4.7UF	20.00% 50V	C3115	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2078	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C3116	1-126-964-11	ELECT 10UF	20.00% 50V
C20 / 9	1-104-004-11	CERAMIC CHIP V.10F	10.000 250	03110	1 120 301 11	2001	20,000
C2080	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3117	1-126-964-11	ELECT 10UF	20.00% 50V
C2081	1-163-139-00	CERAMIC CHIP 820PF	5.00% 50V	C3118	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2082	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V	C3119	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2083	1-162-964-11	CERAMIC CHIP 0.001U	7 10.00% 50V	C3200	1-126-964-11	ELECT 10UF	20.00% 50V
C2084	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3202	1-126-964-11	ELECT 10UF	20.00% 50V
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C2085	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3203	1-126-964-11	ELECT 10UF	20.00% 50V
C2086	1-162-964-11	CERAMIC CHIP 0.001U	7 10.00% 50V	C3206	1-126-964-11	ELECT 10UF	20.00% 50V
C2087	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3208	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C2088	1-162-964-11	CERAMIC CHIP 0.001U	7 10.00% 50V	C3209	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C2089	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3210	1-126-964-11	ELECT 10UF	20.00% 50V
C2090	1-126-947-11	ELECT 47UF	20.00% 35₹	C3211	1-126-964-11	ELECT 10UF	20.00% 50V
C2091	1-126-947-11	ELECT 47UF	20.00% 35V	C3212	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2092	1-126-947-11	ELECT 47UF	20.00% 35V	C3213	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2093	1-126-947-11	ELECT 47UF	20.00% 35V	C3214	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2094	1-126-947-11	ELECT 47UF	20.00% 35V	C3215	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2095	1-126-947-11	ELECT 47UF	20.00% 35V	C3216	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2096	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3217	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2500	1-126-952-11	ELECT 1000UF	20.00% 35V	C3218	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2502	1-104-666-11	ELECT 220UF	20.00% 25V	C3219	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2504	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C3220	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2505	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C3221	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2506	1-126-972-11	ELECT 1000UF	20.00% 50V	C3222	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2507	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3223	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2508	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3224	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2509	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3225	1-164-222-91	CERAMIC CHIP 0.22UF	25V
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		10 000 057	22226	1 164 222 01	OFFINE CHITE A COME	2577
C2510	1-164-227-11	CERAMIC CHIP 0.022UI		C3226	1-164-222-91	CERAMIC CHIP 0.22UF CERAMIC CHIP 0.22UF	25V 25V
C2511	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3227	1-164-222-91		
C2512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3228	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2513	1-126-952-11	ELECT 1000UF	20.00% 35V	C3229	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2515	1-164-227-11	CERAMIC CHIP 0.022U	7 10.00% 25V	C3230	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2516	1-126-953-11	ELECT 2200UF	20.00% 35V	C3231	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2516	1-126-960-11	ELECT 1UF	20.00% 50V	C3232	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2517	1-126-960-11	ELECT 1UF	20.00% 50V	C3233	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C2518	1-126-959-11	ELECT 0.47UF	20.00% 50V 20.00% 50V	C3234	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
	1-126-939-11	CERAMIC CHIP 0.22UF	10.00% 16V	C3235	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C2521	T-104-402-TT	CERRETC CRIF V.220F	TA''AA'0 TAA	1 33233	2 200 2/0 AL		=4.444 #41



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C3236	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5303	1-136-153-00	FILM 0.01UF	5.00% 50V
C3237	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5304	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V
C3238	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5305	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3239	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5306	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3240	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5307	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C324V	1-105 170 11	Caralle Cult V.VI/VI	20.000			VALUE VIIVE	
C3241	1-126-933-11	ELECT 100UF	20.00% 16V	C5309	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3241	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C5310	1-136-497-81	FILM 0.1UF	5.00% 50V
C3242	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5311	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3244	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V	C5312	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3245	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C5313	1-107-714-11	ELECT 10UF	20.00% 50V
00210	1 100 101 01						
C3250	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C5314	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3300	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C5316	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C3309	1-126-964-11	ELECT 10UF	20.00% 50V	C5318	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3310	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5319	1-136-347-11	FILM 0.0047UF	5.00% 630V
C5110	1-126-947-11	ELECT 47UF	20.00% 35V	C5320	1-129-716-00	FILM 0.015UF	5.00% 630V
03110	1 110 011 11						
C5111	1-126-964-11	ELECT 10UF	20.00% 50V	C5321	1-136-347-11	FILM 0.0047UF	5.00% 630V
C5112	1-126-964-11	ELECT 10UF	20.00% 50V	C5322	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5114	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5323	1-136-159-00	FILM 0.033UF	5.00% 50V
C5115	1-126-964-11	ELECT 10UF	20.00% 50V	C5400	1-126-964-11	ELECT 10UF	20.00% 50V
C5116	1-126-964-11	ELECT 10UF	20.00% 50V	C5401	1-107-714-11	ELECT 10UF	20.00% 50V
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C5117	1-126-964-11	ELECT 10UF	20.00% 50♥	C5403	1-128-527-11	ELECT 330UF	20.00% 25V
C5118	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5404	1-102-228-00	CERAMIC 470PF	10.00% 500♥
C5119	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C5405	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C5120	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5406	1-129-702-00	MYLAR 0.001UF	10.00% 400V
C5121	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5407	1-128-527-11	ELECT 330UF	20.00% 25V
C5122	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5409	1-126-968-11	ELECT 100UF	20.00% 50V
C5124	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5410	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C5125	1-126-964-11	ELECT 10UF	20.00% 50V	C5411	1-137-401-11	MYLAR 0.22UF	5.00% 100V
C5200	1-136-177-00	FILM 1UF	5.00% 50V	C5412	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C5201	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V	C5413	1-130-785-11	MYLAR 0.47UF	5.00% 100V
C5202	1-126-947-11	ELECT 47UF	20.00% 35V	C5414	1-126-964-11	ELECT 10UF	20.00% 50V
C5203	1-136-177-00	FILM 1UF	5.00% 50V	C5801	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5204	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C5850	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5205	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V	C5851	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5206	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5853	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5207	1-126-947-11	ELECT 47UF	20.00% 35V	C5854	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5209	1-163-127-00	CERAMIC CHIP 270PF	5.00% 50V	C5858	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5210	1-164-336-11	CERAMIC CHIP 0.33UF	25V	C5859	1-126-960-11	ELECT 1UF	20.00% 50V
C5211	1-136-497-81	FILM 0.1UF	5.00% 50V	C5860	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5212	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5868	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
	4 404 045 11	71 7 A A A A A A A A A A A A A A A A A A	00 000 357	05070	1 164 246 11	GERNATO GUER 100	167
C5213	1-126-947-11	ELECT 47UF	20.00% 35V	C5872	1-164-346-11 1-163-251-11	CERAMIC CHIP 1UF CERAMIC CHIP 100PF	16V 5.00% 50V
C5214	1-126-964-11	ELECT 10UF	20.00% 50V	C5873 C5888	1-163-251-11	CERAMIC CHIP 0.1UF	25V
C5215	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V		1-104-150-11	ELECT 10UF	20.00% 50V
C5216	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C5889			
C5217	1-136-497-81	FILM 0.1UF	5.00% 50V	C5890	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
ara1 a	1 100 000 11	OPDANTO OUTD 47DD	5.00% 50V	C5891	1-137-581-11	FILM 0.1UF	5.00% 100V
C5218	1-162-923-11	CERAMIC CHIP 47PF ELECT 10UF	20.00% 50V	C5891 C5892	1-137-361-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5219	1-126-964-11		20.00% 50V 20.00% 16V	C5892 C5893	1-107-828-11	ELECT 47UF	20.00% 35V
C5300	1-126-933-11	ELECT 100UF ELECT 47UF	20.00% 16V 20.00% 35V	C5893	1-126-947-11	ELECT 470F	20.00% 35V 20.00% 35V
C5301 C5302	1-126-947-11 1-164-222-91	CERAMIC CHIP 0.22UF	20.00% 35V 25V	C5895	1-126-947-11	CERAMIC CHIP 0.1UF	20.00% 35V 25V
C3302	T-104-777-11	CEMENTO CHIE V.220F	251	00000	7 704 100 11	Canada Citt V. 101	234



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C5896	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C7067	1-126-947-11	ELECT 47UF	20.00% 35
	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C7068	1-164-222-91	CERAMIC CHIP 0.22UF	
C5897		CERAMIC CHIP 0.001UF	10.00% 25V	C7069	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50
C5898	1-162-964-11	•======	10.00% 36V	C7070	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50
C5899	1-107-823-11	CERAMIC CHIP 0.47UF		ì			5.00% 50
C6200	1-126-933-11	ELECT 100UF	20.00% 16V	C7071	1-162-919-11	CERAMIC CHIP 22PF	3.00% 30
C6201	1-126-935-11	ELECT 470UF	20.00% 16V		< COAT	ING LEAD >	
C6202	1-126-933-11	ELECT 100UF	20.00% 16V				
C6203	1-126-925-91	ELECT 470UF	20.00% 10V	CLP6	* 4-042-408-02	PIN(45), WIRE	
C6204	1-126-933-11	ELECT 100UF	20.00% 16V				
C6205	1-126-925-91	ELECT 470UF	20.00% 10V		< COM	TECTOR >	
		***			+ 1 000 000 11		nosnn 40n
C6206	1-126-933-11	ELECT 100UF	20.00% 16V	CN0101	* 1-823-330-11	CONNECTOR, BOARD TO	BOARD 40P
C6207	1-126-933-11	ELECT 100UF	20.00% 16V	CN0102	* 1-564-520-11	PLUG, CONNECTOR 5P	
C6208	1-126-933-11	ELECT 100UF	20.00% 16V	CN0103	* 1-817-035-61	PLUG, CONNECTOR 4P	
C6209	1-126-933-11	ELECT 100UF	20.00% 16V	CN1000	* 1-417-319-11	CONNECTOR (SQUARE T	
C6210	1-126-935-11	ELECT 470UF	20.00% 16V	CN1001	* 1-766-296-41	CONNECTOR, DUAL SCA	RT
C6211	1-126-947-11	ELECT 47UF	20.00% 35V	CN2000	* 1-564-512-11	PLUG, CONNECTOR 9P	
C6212	1-126-933-11	ELECT 100UF	20.00% 16V	CN2500	* 1-816-974-51	PLUG, CONNECTOR 3P	
C6213	1-126-933-11	ELECT 100UF	20.00% 16V	CN2501	* 1-564-507-11	PLUG, CONNECTOR 4P	
C6214	1-126-933-11	ELECT 100UF	20.00% 16V	CN2502	* 1-816-977-51	PLUG, CONNECTOR 6P	
C7002	1-126-947-11	ELECT 47UF	20.00% 35V	CN5002	* 1-816-984-71	PLUG, CONNECTOR 7P	
C7002	2 220 01, 22						
C7004	1-164-222-91	CERAMIC CHIP 0.22UF	25V	CN5100	* 1-816-974-51	PLUG, CONNECTOR 3P	
C7008	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	CN5200	* 1-564-506-11	PLUG, CONNECTOR 3P	
C7016	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	CN5801	1-764-333-11	PIN, CONNECTOR (PCB)	(V TYPE) 10P
C7018	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN6200	* 1-564-507-11	PLUG, CONNECTOR 4P	
C7019	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN6202	* 1-564-516-11	PLUG, CONNECTOR 13P	)
C7020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN6203	1-695-915-11	TAB (CONTACT)	
C7021	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN7000	* 1-817-044-81	PLUG, CONNECTOR 7P	
C7021	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN7001	* 1-564-512-11	PLUG, CONNECTOR 9P	
C7022	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN8001	1-766-281-11	PIN, CONNECTOR (PC	BOARD) 8P
C7023	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V			,	•
C/030	1 101 111 11	<b>CLICATIO CLICATIO</b>			< DIO	DE >	
C7031	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C7032	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D0101	8-719-921-88	DIODE MTZJ-13B	
C7038	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	D0104	8-719-109-89	DIODE RD5.6ESB2	
C7039	1-162-966-11	CERAMIC CHIP 0.0022U	10.00% 50V	D0110	8-719-109-89	DIODE RD5.6ESB2	
C7050	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	D0111	8-719-929-15	DIODE HZS9.1NB2	
				D0112	8-719-921-88	DIODE MTZJ-13B	
C7051	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C7052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D0113	8-719-921-88	DIODE MTZJ-13B	
C7053	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D1002	8-719-050-38	DIODE M1MA152WK-T1	
C7054	1-126-963-11	ELECT 4.7UF	20.00% 50V	D2014	8-719-929-15	DIODE HZS9.1NB2	
C7055	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D2015	8-719-929-15	DIODE HZS9.1NB2	
				D2016	8-719-050-38	DIODE M1MA152WK-T1	
C7056	1-126-933-11	ELECT 100UF	20.00% 16V				
C7057	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D2018	8-719-929-15	DIODE HZS9.1NB2	
C7058	1-126-933-11	ELECT 100UF	20.00% 16V	D2019	8-719-929-15	DIODE HZS9.1NB2	
C7059	1-126-933-11	ELECT 100UF	20.00% 16V	D2500	8-719-050-38	DIODE M1MA152WK-T1	
C7060	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D2502	8-719-109-89	DIODE RD5.6ESB2	
			44 444 6=	D2503	8-719-050-38	DIODE M1MA152WK-T1	
C7061	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	20004	0 710 000 17	DTODE 11700 15TO	
C7062	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3001	8-719-929-15	DIODE HZS9.1NB2	
C7063	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3003	8-719-929-15	DIODE HZS9.1NB2	
C7064	1-126-947-11	ELECT 47UF	20.00% 35V	D3005	8-719-929-15	DIODE HZS9.1NB2	
C7065	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D3007	8-719-109-89	DIODE RD5.6ESB2	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK
D3008	8-719-109-89	DIODE RD5.6ESB2			< IC >			
D3009	8-719-929-15	DIODE HZS9.1NB2						
D3011	8-719-929-15	DIODE HZS9.1NB2		IC1001	6-704-747-01	IC TDA9886TS	/V4B	
D3013	8-719-929-15	DIODE HZS9.1NB2		IC2000	6-701-031-11	IC MSP3411G-	QA-B11	
D3015	8-719-929-15	DIODE HZS9.1NB2		IC2001	8-759-100-96	IC UPC4558G2		
				IC2500	8-759-831-56	IC TDA7497		
D3017	8-719-109-89	DIODE RD5.6ESB2		IC3100	6-700-504-01	IC SDA9488X-	B23GEG	
D3018	8-719-109-89	DIODE RD5.6ESB2			C 70C 07C 01	70	···· =100	
D3019	8-719-929-15	DIODE HZS9.1NB2		IC3200	6-706-076-01 8-752-072-94	IC VSP9402A-		
D3021	8-719-929-15	DIODE HZS9.1NB2 DIODE RD5.6ESB2		IC5103 IC5104	8-752-072-94 8-759-803-42	IC CXA1875AM IC LA6500-FA		
D3023	8-719-109-89	DIODE RDJ. 0ESB2		IC5200	8-759-595-52	IC CXA8070AE		
D3024	8-719-929-15	DIODE HZS9.1NB2		IC5201	6-701-046-01	IC LM318N		
D3024	8-719-929-15	DIODE HZS9.1NB2		100202	0 /02 010 02	10 1101011		
D3028	8-719-929-15	DIODE HZS9.1NB2		IC5300	8-759-008-70	IC LM358N		
D3201	8-719-109-89	DIODE RD5.6ESB2		IC5301	8-759-659-67	IC LA6393DLI	ı	
D5103	8-719-110-86	DIODE RD39ESB		IC5302	8-759-659-67	IC LA6393DLI	ŀ	
				IC5400	8-759-696-71	IC STV9379A		
D5104	8-719-109-89	DIODE RD5.6ESB2		IC6200	8-759-648-19	IC L7809CV/I	SY	
D5200	8-719-991-33	DIODE 1SS133T-77		ł ł				
D5201	1-535-303-00	LEAD, JUMPER (5.0MM)		IC6201	8-759-648-20	IC L7805CV/I	SY	
D5202	8-719-050-38	DIODE M1MA152WK-T1		IC6202	8-759-445-59	IC BA033T		
D5300	8-719-081-97	DIODE MMDL914T1		IC6203	8-759-098-24	IC PQ30RV11		
	0 710 001 07	DTADE 1887 01 (81		IC6204	8-759-591-02	IC L78L33AB2	-AP	
D5303	8-719-081-97	DIODE MMDL914T1 DIODE MMDL914T1		IC6205	8-759-394-35	IC BA12T		
D5304	8-719-081-97 8-719-991-33	DIODE 1SS133T-77		IC6206	8-759-991-41	IC LM78L05AC	7	
D5305 D5306	8-719-302-43	DIODE EL1Z		IC7002	8-752-090-88	IC CXA2100AC		
D5307	8-719-987-87	DIODE ERA85-009		20,002	0 752 050 00	10 Omilia		
23301	0 /13 30 / 0.				< SOCKI	et >		
D5308	8-719-081-97	DIODE MMDL914T1						
D5309	8-719-081-97	DIODE MMDL914T1		J2000	1-784-632-11	JACK, PIN 2P		
D5400	8-719-982-03	DIODE MTZJ-3.6A						
D5401	8-719-050-38	DIODE M1MA152WK-T1			< COIL	>		
D5404	8-719-110-41	DIODE RD15ESB2						
				L1001	1-412-987-31	INDUCTOR	4.7UH	
D5405	8-719-908-03	DIODE GP08D		L1002	1-412-987-31	INDUCTOR	4.70H	
D5406	8-719-081-97	DIODE MMDL914T1		L1003	1-414-934-21	INDUCTOR	10UH	
D5407	8-719-081-97	DIODE MMDL914T1		L1004 L1005	1-216-864-11 1-216-864-11	SHORT CHIP	0	
D5804	8-719-109-89 8-719-929-15	DIODE RD5.6ESB2 DIODE HZS9.1NB2		11002	1-210-004-11	SHORT CHIP	0	
D5807	0-119-929-13	DIODE RESS.IND2		L1009	1-216-864-11	SHORT CHIP	0	
D5809	8-719-050-38	DIODE M1MA152WK-T1		L1010	1-216-864-11	SHORT CHIP	0	
D5811	8-719-081-97	DIODE MMDL914T1		L1011	1-216-864-11	SHORT CHIP	0	
D5812	8-719-081-97	DIODE MMDL914T1		L1012	1-216-864-11	SHORT CHIP	0	
D5813	8-719-081-97	DIODE MMDL914T1		L1013	1-216-864-11	SHORT CHIP	0	
D5814	1-216-295-91	SHORT CHIP 0		ļ				
				L2000	1-414-934-21	INDUCTOR	10UH	
D6200	8-719-063-70	DIODE D1NL20U		L2001	1-414-934-21	INDUCTOR	10UH	
D7004	8-719-929-15	DIODE HZS9.1NB2		L2007	1-408-602-31	INDUCTOR	8.2UH	
				L2008	1-216-295-91	SHORT CHIP	0	
	< FERF	RITE BEAD >		L2009	1-216-295-91	SHORT CHIP	0	
	4 444 860 64	manna ma		12010	1 414 000 01	TATATIOMAN	1,,,,,	
FB3001	1-414-760-21	FERRITE OUH		L2010	1-414-928-21 1-414-934-21	INDUCTOR	10H	
	J 877 M	י מקו		L2012 L2013	1-414-934-21	INDUCTOR INDUCTOR	10UH 1UH	
	< FILT	EV /		L2013	1-414-928-21	INDUCTOR	8.2UH	
FL2000	1-239-803-11	FILTER, EMI		L2500	1-535-303-00	LEAD, JUMPER		
- 75 AAA	1 200 000 11				_ 330 000 00		1	

Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L2501	1-535-303-00	LEAD, JUMPER		Q2002	8-729-010-29	TRANSISTOR M	SD601-RST1
L3000	1-216-295-91	SHORT CHIP	Ò	Q2003	8-729-010-29	TRANSISTOR M	SD601-RST1
L3004	1-216-295-91	SHORT CHIP	0	Q2004	8-729-010-29	TRANSISTOR M	SD601-RST1
L3005	1-216-295-91	SHORT CHIP	0	Q2005	8-729-010-29	TRANSISTOR M	SD601-RST1
L3006	1-216-295-91	SHORT CHIP	0	Q2501	8-729-010-29	TRANSISTOR M	SD601-RST1
					0 500 010 00		on CA1 now1
L3007	1-216-295-91	SHORT CHIP	0	Q2502	8-729-010-29	TRANSISTOR M	
<b>L</b> 3008	1-216-295-91	SHORT CHIP	0	Q2503	8-729-010-29	TRANSISTOR M	
L3009	1-216-295-91	SHORT CHIP	0	Q2504	8-729-010-05	TRANSISTOR M	
L3010	1-216-295-91	SHORT CHIP	0	Q3200	8-729-010-29	TRANSISTOR M	
L3011	1-216-295-91	SHORT CHIP	0	Q3201	8-729-010-29	TRANSISTOR M	SD601-RST1
L3012	1-216-295-91	SHORT CHIP	0	Q3202	8-729-010-05	TRANSISTOR M	SB709-RT1
L3105	1-412-006-31	INDUCTOR	10UH	Q3204	8-729-010-05	TRANSISTOR M	SB709-RT1
L3106	1-412-006-31	INDUCTOR	10UH	Q3300	8-729-010-05	TRANSISTOR M	SB709-RT1
L3107	1-412-006-31	INDUCTOR	10UH	Q3301	8-729-010-05	TRANSISTOR M	SB709-RT1
L3200	1-412-006-31	INDUCTOR	10UH	Q3302	8-729-010-05	TRANSISTOR M	SB709-RT1
-2000	1 410 006 21	THOUGHOD	10UH	Q3500	8-729-028-28	ФОВМСТСФОО 2	SK2036 (TE85L)
L3202	1-412-006-31	INDUCTOR	100H	Q3501	8-729-028-28		SK2036 (TE85L)
L3203	1-412-006-31	INDUCTOR	10UH	Q5301 Q5101	8-729-010-29	TRANSISTOR M	, ,
L3206	1-412-006-31	INDUCTOR		1	8-729-010-29	TRANSISTOR M	
L3208	1-412-006-31	INDUCTOR	10UH	Q5200	8-729-010-29	TRANSISTOR M	
L3209	1-216-864-11	SHORT CHIP	0	Q5201	8-729-010-29	TRANSISTOR M	2D001-K211
<b>L</b> 3300	1-412-006-31	INDUCTOR	10UH	Q5202	8-729-045-04	TRANSISTOR 2	SC5511
L5300	1-406-989-21	INDUCTOR	10MH	Q5203	8-729-044-59	TRANSISTOR 2	SA1837 (LBS2SONY)
L5301	1-406-989-21	INDUCTOR	10MH	Q5204	8-729-010-05	TRANSISTOR M	
L5400	1-412-524-11	INDUCTOR	8.2UH	Q5205	8-729-010-05	TRANSISTOR M	SB709-RT1
L5896	1-216-864-11	SHORT CHIP	0	Q5300	8-729-010-29	TRANSISTOR M	SD601-RST1
7 E007	1-216-864-11	SHORT CHIP	0	Q5301	8-729-053-33	TRANSISTOR I	RF614-037
15897	1-414-934-21	INDUCTOR	10UH	Q5302	8-729-140-97	TRANSISTOR 2	
L5898	1-414-934-21	INDUCTOR	10UH	Q5302 Q5303	8-729-010-29	TRANSISTOR M	
L5899		INDUCTOR	10UH	Q5303	8-729-010-29	TRANSISTOR M	
L7001 L7009	1-414-934-21 1-414-934-21	INDUCTOR	100H	Q5304 Q5305	8-729-119-78	TRANSISTOR 2	
11003	2 .2	25 0 0 0 0 1 .					
L7010	1-414-934-21	INDUCTOR	10UH	Q5306	8-729-140-97	TRANSISTOR 2	SB734-34
L7011	1-414-934-21	INDUCTOR	10UH	Q5400	8-729-010-29	TRANSISTOR M	
L7012	1-414-934-21	INDUCTOR	10UH	Q5401	8-729-421-19	TRANSISTOR U	N2213
				Q5402	8-729-010-05	TRANSISTOR M	SB709-RT1
	< PRO	TECTOR MODULE >		Q5403	8-729-421-19	TRANSISTOR U	N2213
PS2501 /	A 1-533-597-31	IC LINK	5A 90V	Q5404	8-729-926-76	TRANSISTOR I	RF620
ESTONT 1	1 333 331 31	AV ####	***	Q5813	8-729-421-19	TRANSISTOR U	
	∠ mpx	NSISTOR >		Q5814	8-729-010-05	TRANSISTOR M	
	\ 1M	NOIDION >		Q5815	8-729-010-29	TRANSISTOR M	
01000	0 700 010 05	TRANSISTOR MS	<b>Ⴊ7Λ</b> Ω_D#1	Q5816	8-729-010-05	TRANSISTOR M	
Q1000	8-729-010-05			Q3010	0 725 010 05	INMOIDION II	OD/V/ KII
Q1001	8-729-010-29	TRANSISTOR MS		06201	0_720_140_07	TRANSISTOR 2	CD721-21
Q1002	8-729-421-19	TRANSISTOR UN		Q6201	8-729-140-97	TRANSISTOR M	
Q1003	8-729-421-19	TRANSISTOR UN		Q7003	8-729-010-29 8-729-010-05	TRANSISTOR M	
Q1004	8-729-422-33	TRANSISTOR 2S	DONTW-Ã-LY	Q7009	8-729-010-05	TRANSISTOR M	
****			0010	Q7011	8-729-010-05		
Q1005	8-729-421-19	TRANSISTOR UN		Q7012	8-729-010-05	TRANSISTOR M	00/UJ-KII
Q1006	8-729-010-05	TRANSISTOR MS			0 700 040 00	mp transmar	ancal nami
Q1008	8-729-421-19	TRANSISTOR UN		Q7013	8-729-010-29	TRANSISTOR M	
Q1009	8-729-010-05	TRANSISTOR MS		Q7014	8-729-010-05	TRANSISTOR M	
Q2000	8-729-010-29	TRANSISTOR MS	D601-RST1	Q7015	8-729-010-05	TRANSISTOR M	
				Q7016	8-729-010-29	TRANSISTOR M	
Q2001	8-729-010-29	TRANSISTOR MS	D601-RST1	Q7017	8-729-010-05	TRANSISTOR M	SB/09-RT1

REF.NO.	PART.NO	DESCRIPTION		RI	EMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
Q7018	8-729-010-05	TRANSISTOR MS	B709-RT	1		R1037	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q7019	8-729-010-29	TRANSISTOR MS	D601-RS	T1		R1038	1-216-833-11	METAL CHIP	10K	5%	1/10W
2.025	• 120					R1039	1-216-801-11	METAL CHIP	22	5%	1/10W
	< RESI	STOR >				R1041	1-216-812-11	METAL CHIP	180	5%	1/10W
						R1042	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR105	1-216-295-91	SHORT CHIP	0								
JR121	1-216-864-11	SHORT CHIP	0			R1045	1-216-864-11	SHORT CHIP	0		
JR123	1-216-864-11	SHORT CHIP	0			R1046	1-216-809-11	METAL CHIP	100	5%	1/10W
JR134	1-216-295-91	SHORT CHIP	0			R1047	1-216-817-11	METAL CHIP	470	5%	1/10W
JR1003	1-216-864-11	SHORT CHIP	0			R1048	1-216-834-11	METAL CHIP	12K	5%	1/10W
						R1050	1-216-809-11	METAL CHIP	100	5%	1/10W
JR1004	1-216-864-11	SHORT CHIP	0								
JR1009	1-216-864-11	SHORT CHIP	0			R1051	1-216-809-11	METAL CHIP	100	5%	1/10W
JR2000	1-216-295-91	SHORT CHIP	0			R1052	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R2009	1-216-817-11	METAL CHIP	470	5%	1/10W
R0101	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2010	1-216-817-11	METAL CHIP	470	5%	1/10W
R0102	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R2011	1-216-049-11	RES-CHIP	1K	5%	1/10W
R0103	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R0104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R2014	1-216-049-11	RES-CHIP	1K	5%	1/10W
R0105	1-216-025-11	RES-CHIP	100	5%	1/10W	R2015	1-216-295-91	SHORT CHIP	0		
						R2017	1-216-853-11	METAL CHIP	470K	5%	1/10W
R0107	1-216-025-11	RES-CHIP	100	5%	1/10W	R2018	1-216-295-91	SHORT CHIP	0		
R1000	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2020	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1001	1-216-001-00	RES-CHIP	10	5%	1/10W						
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2023	1-216-853-11	METAL CHIP	470K		1/10W
R1004	1-216-864-11	SHORT CHIP	0			R2026	1-216-853-11	METAL CHIP	470K	5%	1/10W
						R2029	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1005	1-216-049-11	RES-CHIP		5%	1/10W	R2032	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1006	1-216-051-00	RES-CHIP		5%	1/10W	R2035	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1007	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1008	1-216-864-11	SHORT CHIP	0			R2038	1-216-853-11	METAL CHIP	470K		1/10W
R1009	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2041	1-216-853-11	METAL CHIP	470K		1/10W
						R2042	1-216-829-11	METAL CHIP	4.7K		1/10W
R1011	1-216-825-11	METAL CHIP	2.2K		1/10W	R2043	1-216-829-11	METAL CHIP	4.7K		1/10W
R1013	1-216-825-11	METAL CHIP	2.2K		1/10W	R2044	1-216-853-11	METAL CHIP	470K	5*	1/10W
R1014	1-216-825-11	METAL CHIP	2.2K		1/10W		1 016 050 11		450	<b>P</b> 0	4 /4 /**
R1016	1-216-817-11	METAL CHIP		5% -^	1/10W	R2047	1-216-853-11	METAL CHIP		5% =°	1/10W
R1018	1-216-830-11	METAL CHIP	5.6K	5*	1/10W	R2048	1-216-837-11	METAL CHIP	22K	5% E0	1/10W
				=0	4 /4 000	R2050	1-216-845-11	METAL CHIP	100K	5% E°	1/10W
R1019	1-216-827-11	METAL CHIP	3.3K		1/10W	R2051	1-216-049-11	RES-CHIP	1K	5% 5%	1/10W 1/10W
R1020	1-216-811-11	METAL CHIP		5% 5%	1/10W	R2052	1-216-837-11	METAL CHIP	22K	25	1/100
R1021	1-216-833-11	METAL CHIP METAL CHIP		5%	1/10W 1/10W	R2053	1-216-817-11	METAL CHIP	470	5%	1/10W
R1022	1-216-839-11 1-216-8 <b>4</b> 9-11	METAL CHIP	220K		1/10W 1/10W	R2054	1-216-049-11	RES-CHIP	1K	5% 5%	1/10W
R1023	1-210-649-11	MEIAL CHIP	22 V.R	20	1/10#	R2055	1-216-049-11	RES-CHIP	1K	5%	1/10W
21004	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2056	1-216-815-11	METAL CHIP	330	5%	1/10W
R1024	1-216-837-11	METAL CHIP		5%	1/10W	R2057	1-216-025-11	RES-CHIP	100	5%	1/10W
R1025	1-216-817-11	METAL CHIP		5%	1/10W	12037	1 210 023 11	ino chii	200	•	2/ 2011
R1026 R1027	1-216-824-11	METAL CHIP	1.8K		1/10W	R2058	1-216-025-11	RES-CHIP	100	5%	1/10W
R1027	1-216-813-11	METAL CHIP		5%	1/10W	R2059	1-216-829-11	METAL CHIP	4.7K		1/10W
K1020	1-210-015 11	mind onli		•	4/ 4011	R2060	1-216-829-11	METAL CHIP	4.7K		1/10W
p1020	1-216-809-11	METAL CHIP	100	5%	1/10W	R2061	1-216-829-11	METAL CHIP	4.7K		1/10W
R1029 R1030	1-216-819-11	METAL CHIP		5% 5%	1/10W	R2062	1-216-829-11	METAL CHIP	4.7K		1/10W
R1030 R1032	1-216-819-11	METAL CHIP		5%	1/10W	544 V V4		OILL	2.74		-, - • • •
	1-218-867-11	METAL CHIP	6.8K		1/10W	R2063	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1033 R1034	1-216-807-11	METAL CHIP		5%	1/10W	R2064	1-249-425-11	CARBON	4.7K		1/4W
KT024	1-510-001-11	rminu Chir	-	• 0	-/ 1	R2065	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1035	1-216-807-11	METAL CHIP	68	5%	1/10W	R2066	1-216-829-11	METAL CHIP	4.7K		1/10W
R1035	1-216-814-11	METAL CHIP		5%	1/10W	R2067	1-216-829-11	METAL CHIP	4.7K		1/10W
VIACO	7 277 474 47		,	٠.	-,	1	<b></b>			- '	



REF.NO.	PART.NO	DESCRIPTION		RE	MARK	REF.NO.	PART.NO	DESCRIPTION		R	EMARK
R2068	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2930	1-216-295-91	SHORT CHIP	0		
R2069	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2933	1-216-295-91	SHORT CHIP	0		
R2070	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2936	1-216-295-91	SHORT CHIP	0		
R2071	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2939	1-216-295-91	SHORT CHIP	0		
R2072	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2942	1-216-295-91	SHORT CHIP	0		
112012											
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2945	1-216-295-91	SHORT CHIP	0		
R2074	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3000	1-216-025-11	RES-CHIP	100	5%	1/10W
R2075	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3001	1-216-022-00	RES-CHIP	75	5%	1/10W
R2076	1-216-839-11	METAL CHIP	33K	5%	1/10W	R3009	1-216-025-11	RES-CHIP	100	5%	1/10W
R2077	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3010	1-216-022-00	RES-CHIP	75	5%	1/10W
R2078	1-216-025-11	RES-CHIP	100	5%	1/10W	R3011	1-216-025-11	RES-CHIP	100	5%	1/10W
R2079	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3012	1-216-022-00	RES-CHIP	75	5%	1/10W
R2080	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R3013	1-216-025-11	RES-CHIP	100	5%	1/10W
R2081	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3014	1-216-022-00	RES-CHIP	75	5%	1/10W
R2082	1-216-031-00	RES-CHIP	180	5%	1/10W	R3015	1-216-022-00	RES-CHIP	75	5%	1/10W
D2002	1-216-817-11	METAL CHIP	470	5%	1/10W	R3016	1-216-025-11	RES-CHIP	100	5%	1/10W
R2083 R2084	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3017	1-216-022-00	RES-CHIP	75	5%	1/10W
R2085	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3018	1-216-025-11	RES-CHIP	100	5%	1/10W
	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3019	1-216-022-00	RES-CHIP	75	5%	1/10W
R2086	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3020	1-216-025-11	RES-CHIP	100	5%	1/10W
R2087	1-216-637-11	METAL CHIP	ZZK	J.0	1/1011	23020	1 210 020 11	120 0111			
R2088	1-216-041-00	RES-CHIP	470	5%	1/10W	R3021	1-216-022-00	RES-CHIP	75	5%	1/10W
R2089	1-216-041-00	RES-CHIP	470	5%	1/10W	R3022	1-216-025-11	RES-CHIP	100	5%	1/10W
R2092	1-216-039-00	RES-CHIP	390	5%	1/10W	R3023	1-216-022-00	RES-CHIP	75	5%	1/10W
R2093	1-216-039-00	RES-CHIP	390	5%	1/10W	R3024	1-216-025-11	RES-CHIP	100	5%	1/10W
R2094	1-216-039-00	RES-CHIP	390	5%	1/10W	R3025	1-216-022-00	RES-CHIP	75	5%	1/10W
R2095	1-216-039-00	RES-CHIP	390	5%	1/10W	R3026	1-216-022-00	RES-CHIP	75	5%	1/10W
R2096	1-216-039-00	RES-CHIP	390	5%	1/10W	R3027	1-216-025-11	RES-CHIP	100	5%	1/10W
R2097	1-216-039-00	RES-CHIP	390	5%	1/10W	R3028	1-216-022-00	RES-CHIP	75	5%	1/10W
R2098	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3029	1-216-045-00	RES-CHIP	680	5%	1/10W
R2099	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3030	1-216-022-00	RES-CHIP	75	5%	1/10W
R2500	1-216-073-91	RES-CHIP	10K	5%	1/10W	R3031	1-216-022-00	RES-CHIP	75	5%	1/10W
R2500 R2501	1-216-341-11	METAL OXIDE	0.22	5%	1W	R3032	1-216-022-00	RES-CHIP	75	5%	1/10W
R2501 R2502	1-208-810-11	METAL CHIP	15K	0.5%		R3033	1-216-025-11	RES-CHIP	100	5%	1/10W
R2502 R2503	1-208-810-11	METAL CHIP	15K		1/10W	R3034	1-216-022-00	RES-CHIP	75	5%	1/10W
R2503	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3035	1-216-025-11	RES-CHIP	100	5%	1/10W
R2304	1-210 045 11	120 0111		••	<b>-,</b>		<b>- -</b>				
R2507	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3036	1-216-022-00	RES-CHIP	75	5%	1/10W
R2509	1-249-417-11	CARBON	1K	5%	1/4W	R3037	1-216-045-00	RES-CHIP	680	5%	1/10W
R2511	1-216-073-91	RES-CHIP	10K	5%	1/10W	R3104	1-216-295-91	SHORT CHIP	0		
R2516	1-216-081-00	RES-CHIP	22K	5%	1/10W	R3110	1-216-025-11	RES-CHIP	100	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R3111	1-216-025-11	RES-CHIP	100	5%	1/10W
R2518	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3112	1-216-295-91	SHORT CHIP	0		
R2519	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3218	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2520	1-216-025-11	RES-CHIP	100	5%	1/10W	R3219	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3220	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2525	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R3221	1-216-837-11	METAL CHIP	22K	5%	1/10W
D2012	1-216-295-91	SHORT CHIP	0			R3222	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2912 R2914	1-216-853-11	METAL CHIP	470K	5%	1/10W	R3223	1-216-837-11	METAL CHIP	22K	5%	1/10W
	1-216-295-91	SHORT CHIP	0		-, <del></del>	R3225	1-216-025-11	RES-CHIP	100	5%	1/10W
R2921	1-216-295-91	SHORT CHIP	Ö			R3226	1-216-025-11	RES-CHIP	100	5%	1/10W
R2924		SHORT CHIP	0			R3229	1-216-025-11	RES-CHIP	100	5%	1/10W
R2927	1-216-295-91	SHOKI CHIP	v			1,5223	T - 210 - V2311	-wo viiii			-,



REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION		R	EMARI
R3230	1-216-025-11	RES-CHIP	100	5%	1/10W	R5203	1-216-825-11	METAL CHIP	2.2K		1/10
R3233	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5204	1-216-809-11	METAL CHIP	100	5%	1/10
R3234	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5206	1-216-061-91	RES-CHIP	3.3K	5%	1/1
R3235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R5207	1-216-057-00	RES-CHIP	2.2K	5%	1/10
R3236	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R5208	1-212-849-00	FUSIBLE	4.7	5%	1/4
R3237	1-216-797-11	METAL CHIP	10	5%	1/10W	R5209	1-216-809-11	METAL CHIP	100	5%	1/1
	1-216-797-11	METAL CHIP	10	5%	1/10W	R5210	1-216-845-11	METAL CHIP	100K		1/1
R3238		RES-CHIP	100	5%	1/10W 1/10W	l l		METAL CHIP	100K		1/1
R3305	1-216-025-11			5%		R5211	1-216-845-11			0.5%	
R3306	1-216-025-11	RES-CHIP	100		1/10W	R5214	1-208-798-11	METAL CHIP			
R3312	1-216-825-11	METAL CHIP	2.2K	28	1/10W	R5215	1-216-025-11	RES-CHIP	100	5%	1/1
R3313	1-216-825-11	METAL CHIP	2.2K		1/10W	R5217	1-216-825-11	METAL CHIP	2.2K		1/1
R3314	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5218	1-260-321-51	CARBON	270	5%	1/2
R3318	1-216-025-11	RES-CHIP	100	5%	1/10W	R5219	1-208-798-11	METAL CHIP	4.7K	0.5%	1/1
R3319	1-216-025-11	RES-CHIP	100	5%	1/10W	R5220	1-215-886-11	METAL OXIDE	100	5%	2W
R3320	1-216-025-11	RES-CHIP	100	5%	1/10W	R5222	1-218-874-11	METAL CHIP	13K	0.5%	1/1
R3403	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5223	1-208-814-91	METAL CHIP	22K	0.5%	1/1
R3500	1-216-834-11	METAL CHIP	12K	5%		R5225	1-216-057-00	RES-CHIP	2.2K	5%	1/1
R3501	1-216-834-11	METAL CHIP	12K	5%	1/10W	R5226	1-212-849-00	FUSIBLE	4.7	5%	1/4
	1-216-825-11	METAL CHIP	2.2K	5%		R5227	1-216-049-11	RES-CHIP	1K	5%	1/1
R3504			2.2K			1		RES-CHIP	1K	5%	1/1
R3505	1-216-825-11	METAL CHIP	2.2K	27	1/100	R5228	1-216-049-11	KES-CHIP	TV	J	1/1
R3603	1-216-295-91	SHORT CHIP	0			R5229	1-216-837-11	METAL CHIP	22K	5%	1/1
R5118	1-249-413-11	CARBON	470	5%	1/4W	R5230	1-218-873-11	METAL CHIP	12K	0.5%	1/1
R5119	1-216-840-11	METAL CHIP	39K	5%	1/10W	R5231	1-216-057-00	RES-CHIP	2.2K	5%	1/1
R5122	1-216-821-11	METAL CHIP	1K	5%		R5232	1-216-845-11	METAL CHIP	100K		1/1
R5125	1-216-836-11	METAL CHIP	18K	5%	•	R5233	1-216-057-00	RES-CHIP	2.2K		1/1
R5126	1-249-413-11	CARBON	470	5%	1/4W	R5234	1-216-833-11	METAL CHIP	10K	5%	1/1
R5128	1-216-809-11	METAL CHIP	100	5%	•	R5235	1-216-833-11	METAL CHIP	10K	5%	1/1
	1-216-809-11	METAL CHIP	100	5%	•	R5237	1-216-049-11	RES-CHIP	1K	5%	1/1
R5129			100	5% 5%				METAL OXIDE	2.2	5%	3W
R5130	1-216-809-11	METAL CHIP				R5238	1-216-393-00				-
R5131	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5239	1-208-848-11	METAL CHIP	560K	0.5%	1/.
R5132	1-216-809-11	METAL CHIP	100	5%		R5241	1-216-841-11	METAL CHIP	47K	5%	1/:
R5133	1-216-809-11	METAL CHIP	100	5%		R5300	1-208-806-11	METAL CHIP	10K	0.5%	
R5137	1-216-809-11	METAL CHIP	100	5%		R5301	1-216-829-11	METAL CHIP	4.7K		1/1
R5138	1-216-809-11	METAL CHIP	100	5%	1/10W	R5302	1-208-806-11	METAL CHIP	10K	0.5%	1/1
R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5303	1-216-685-11	METAL CHIP	27K	0.5%	1/:
R5140	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5304	1-208-806-11	METAL CHIP	10K	0.5%	1/1
R5141	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5305	1-208-852-11	METAL CHIP	820K	0.5%	1/1
R5143	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5306	1-208-803-11	METAL CHIP	7.5K	0.5%	1/1
R5144	1-216-821-11	METAL CHIP	1K	5%		R5307	1-216-041-00	RES-CHIP	470	5%	1/1
R5145	1-216-809-11	METAL CHIP	100	5%		R5308	1-216-295-91	SHORT CHIP	0		·
R5147	1-216-809-11	METAL CHIP	100	5%	1/10W	R5309	1-208-824-11	METAL CHIP	56K	0.5%	1/1
	1-249-414-11	CARBON	560	5%		R5310	1-208-830-11	METAL CHIP		0.5%	
R5150			3.9	5%					680	5%	1/1
R5151	1-249-454-11	CARBON				R5311	1-216-045-00	RES-CHIP			
R5152	1-249-413-11	CARBON	470	5% = 0.	•	R5312	1-208-832-11	METAL CHIP		0.5%	
R5153	1-249-393-11	CARBON	10	5%	1/4W	R5314	1-208-840-11	METAL CHIP	210K	0.5%	1/1
R5154	1-216-833-11	METAL CHIP	10K	5%		R5315	1-216-043-91	RES-CHIP	560	5%	1/1
R5155	1-249-421-11	CARBON	2.2K	5%		R5316	1-216-057-00	RES-CHIP	2.2K		1/1
R5156	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5317	1-216-845-11	METAL CHIP	100K	5%	1/1
R5157	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5318	1-208-806-11	METAL CHIP	10K	0.5%	1/1
		RES-CHIP	3.3K			R5319	1-208-840-11	METAL CHIP	270K		

REF.NO.	PART.NO	DESCRIPTION		RE	MARK	REF.NO.	PART.NO	DESCRIPTION		RE	MARK
R5320	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5871	1-216-850-11	METAL CHIP	270K	5%	1/10W
R5321	1-216-837-11	METAL CHIP	22K	5%	1/10W	R5872	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5322	1-216-820-11	METAL CHIP	820	5%	1/10W	R5873	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5324	1-208-810-11	METAL CHIP	15K		1/10W	R5875	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5325	1-208-812-11	METAL CHIP	18K		1/10W	R5877	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
13323	1 200 011 11				<b>-,</b>						
R5326	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5878	1-216-817-11	METAL CHIP	470	5%	1/10W
R5327	1-216-472-00	METAL OXIDE	39	5%	3W	R5879	1-216-809-11	METAL CHIP	100	5%	1/10W
R5328	1-216-033-00	RES-CHIP	220	5%	1/10W	R5880	1-216-809-11	METAL CHIP	100	5%	1/10W
R5331	1-216-033-00	RES-CHIP	220	5%	1/10W	R5881	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5332	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R5882	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5333	1-208-820-11	METAL CHIP	39K	0.5%	1/10W	R5883	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5334	1-208-834-11	METAL CHIP	150K	0.5%	1/10W	R5884	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5335	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R5885	1-216-809-11	METAL CHIP	100	5%	1/10W
R5336	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5887	1-216-809-11	METAL CHIP	100	5%	1/10W
R5337	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R5888	1-216-809-11	METAL CHIP	100	5%	1/10W
		****	470	<b>F</b> o	1 / 422	R5889	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5338	1-249-413-11	CARBON	470	5% =^	1/4W	1		METAL CHIP	10K	0.5° 5%	1/10W
R5340	1-216-057-00	RES-CHIP	2.2K		1/10W	R5892	1-216-833-11 1-216-833-11	METAL CHIP	10K	5% 5%	1/10W
R5341	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5895		METAL CHIP	8.2K	วา 5%	1/10W
R5342	1-208-818-11	METAL CHIP	33K		1/10W	R5898	1-216-832-11				1/10W
R5343	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	R5899	1-216-863-11	METAL CHIP	3.3M	31	1/10#
R5344	1-208-820-11	METAL CHIP	39K	0.5%	1/10W	R6200	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R5345	1-208-832-11	METAL CHIP	120K	0.5%	1/10W	R6201	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R5346	1-216-849-11	METAL CHIP	220K	5%	1/10W	R6202	1-249-395-11	CARBON	15	5%	1/4W
R5400	1-216-849-11	METAL CHIP	220K	5%	1/10W	R7007	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5401	1-216-837-11	METAL CHIP	22K	5%	1/10W	R7018	1-216-025-11	RES-CHIP	100	5%	1/10W
R5402	1-216-081-00	RES-CHIP	22K	5%	1/10W	R7023	1-216-834-11	METAL CHIP	12K	5∜	1/10W
R5403	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R7034	1-216-025-11	RES-CHIP	100	5%	1/10W
R5404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R7035	1-216-025-11	RES-CHIP	100	5%	1/10W
R5405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R7048	1-216-025-11	RES-CHIP	100	5%	1/10W
R5407	1-216-857-11	METAL CHIP	1M	5%	1/10W	R7050	1-216-833-11	METAL CHIP	10K	5%	1/10W
DE 100	1-216-825-11	METAL CHIP	2.2K	52	1/10W	R7051	1-216-025-11	RES-CHIP	100	5%	1/10W
R5408 R5409	1-216-825-11	METAL CHIP			1/10W	R7052	1-216-025-11	RES-CHIP	100	5%	1/10W
R5410	1-208-798-11	METAL CHIP			1/10W	R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5411	1-216-061-91	RES-CHIP	3.3K		1/10W	R7054	1-216-847-11	METAL CHIP	150K		1/10W
R5411	1-208-802-11	METAL CHIP			1/10W	R7056	1-218-867-11	METAL CHIP			1/10W
5.5 1.25											
R5414	1-249-383-11	CARBON	1.5	5%	1/4W	R7057	1-216-842-11	METAL CHIP	56K	5%	1/10W
R5415	1-249-389-11	CARBON	4.7	5%	1/4W	R7058	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5416	1-215-888-00	METAL OXIDE	220	5%	2W	R7065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5417	1-208-798-11	METAL CHIP	4.7K		1/10W	R7066	1-216-809-11	METAL CHIP	100	5%	1/10W
R5420	1-214-798-21	METAL	1.8	1%	1/2W	R7067	1-216-295-91	SHORT CHIP	0		
R5421	1-214-798-21	METAL	1.8	1%	1/2W	R7068	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R5803	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	R7070	1-216-817-11	METAL CHIP	470	5%	1/10W
R5804	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7071	1-216-817-11	METAL CHIP	470	5%	1/10W
R5805	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7072	1-216-817-11	METAL CHIP	470	5%	1/10W
R5806	1-216-089-91	RES-CHIP	47K	5%	1/10W	R7073	1-216-041-00	RES-CHIP	470	5%	1/10W
R5807	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7074	1-216-043-91	RES-CHIP	560	5%	1/10W
R5808	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7075	1-216-817-11	METAL CHIP	470	5%	1/10W
R5809	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7076	1-216-041-00	RES-CHIP	470	5%	1/10W
R5865	1-216-841-11	METAL CHIP	47K	5%	1/10W	R7077	1-216-043-91	RES-CHIP	560	5%	1/10W
R5869	1-216-817-11	METAL CHIP	470	5%	1/10W	R7078	1-216-817-11	METAL CHIP	470	5%	1/10W
10007			- • •		•	I					

	REF.NO.	PART.NO	DESCRIPTION	REMARK F		REF.NO.	PART.NO	DESCRIPTION	REMARK	
				470 59	l 1/10W			< CONT	VECTOR >	
				560 59	-					
1-206-782-11   METAL CHIP   187			METAL CHIP	470 59			CN0001	* 1-793-497-11	CONNECTOR, B	OARD TO BOARD 40P
R708		1-208-782-11	METAL CHIP	1K 0	.5% 1/10W	,				
1-216-819-11		1-216-833-11	METAL CHIP	10K 5	} 1/10W	!		< DIO	DE >	
1-216-819-11	<b>57000</b>	1_200_702_11	METAL CHID	1 1K 0	5% 1/10W	•	D0001	6-500-079-01	DIODE BAS40-	05E6327
R7990					-		1			
R7095							20002	0 120 000 00	3233	
R7097   1-216-803-11								< FER	RITE BEAD >	
Page					•					
R7098	2000				•		FB0003	1-216-295-91	SHORT CHIP	0
R7908	R7097	1-216-803-11	METAL CHIP	33 5	% 1/10W	1	FB0004	1-412-006-31	INDUCTOR	10UH
F80007   1-412-066-31   1800TCR   100H			METAL CHIP	33 5	% 1/10W	i	FB0005	1-216-864-11	SHORT CHIP	0
Note	• • • • • • • • • • • • • • • • • • • •						FB0006	1-216-864-11	SHORT CHIP	0
FB0000		< RESI	STOR VARIABLE >				FB0007	1-412-006-31	INDUCTOR	10UH
SPI001	PW5101	1-238-600-11	RES. ADJ. CARE	SON 10K			FB0008	1-216-295-91	SHORT CHIP	0
TONIER	KANTAT	1 250 000	<b>320</b> / <b>320</b> / <b>3</b>				1			10UH
TOMER   Section   Figure   F	SE1001	1-795-617-11	SAW FILTER				FB0010	1-216-295-91	SHORT CHIP	0
TU1001	011001	2 100 001 00					1	1-412-006-31	INDUCTOR	10UH
CRYSTAL		< TUNE	R >				FB0012	1-216-295-91	SHORT CHIP	0
CRYSTAL										•
CRYSTAL	TU1001	8-598-623-10	TUNER, FSS BTF	P-AC421			1			
Note							1			•
The first content of the fir		< CRYS	TAL >				1			•
No.							1			•
Table   Tabl							180019	1-216-295-91	SHORT CHIP	V
Table   Tabl			•				E-00000	1_216_205_01	מדום המסטים	٨
CODE   CAPACITOR   CAPACITOR   CAPACITOR   COUNTY   COU							150020	1-210-293-91	SHOKI CHIP	V
CODO1	YORGY	1-707-127-11	VIDARION, CEAR	MIC				< IC :	>	
COURT   COURT   CERAMIC CHIP 0.1UF   10.00% 16V   COURT   CERAMIC CHIP 0.2UF   16V   COURT   CERAMIC CHIP 0.00% 50V   COURT   CERAMIC CHIP 0.00% 50	* A-163	34-062-A M Bo	ard Complete					0 750 600 00	TO 110 401 C 101	Cm (3)
C0001		< 01.D1	OTHOD >				1			• •
C0001		< CAPA	CITOR >							
C0002	20001	1 107 026_11	CEDAMIC CUID (	11112	10 00%	160	1			
C0004							1			r_vr70m
C0006					20.000		10000	0 702 333 01	IC ROPZVVOVZ	2 11/01
COURT   1-107-826-11   CERAMIC CHIP   0.1UF   10.00%   16V   Q0002   8-729-424-08   TRANSISTOR UN2111   Q0009   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0006   8-729-010-29   TRANSISTOR MSD601-RST1   Q0011   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0008   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0012   1-162-924-11   CERAMIC CHIP   0.2UF   16V   Q0008   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0013   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0010   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0013   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0010   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0015   1-135-834-91   CERAMIC CHIP   0.2UF   16V   Q0010   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0015   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0010   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0015   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0010   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0015   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0016   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0015   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0016   1-165-128-11   CERAMIC CHIP   0.2UF   16V   Q0016   8-729-027-44   TRANSISTOR DTC114TKA-T146   Q0016   R-729-010-29   TRANSISTOR DTC114TKA-T146   Q0016   R-729-010-29   TRANSISTOR DTC114TKA-T146   Q0016   R-729-010-29   TRANSISTOR DTC114TKA-T146   Q0017   R-729-010-29   TRANSISTOR DTC114TKA-T1		-			20.00%			< TRAI	ISISTOR >	
C0008								` 2202		
C0008		, ,			,		Q0002	8-729-424-08	TRANSISTOR U	N2111
C0010 1-162-927-11 CERAMIC CHIP 100FF 5.00% 50V Q0007 8-729-027-44 TRANSISTOR DTC114TKA-T146 C0011 1-165-128-11 CERAMIC CHIP 56PF 5.00% 50V Q0008 8-729-027-44 TRANSISTOR DTC114TKA-T146 C0012 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0009 8-729-027-44 TRANSISTOR DTC114TKA-T146 C0013 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0010 8-729-027-44 TRANSISTOR DTC114TKA-T146 C0015 1-135-834-91 CERAMIC CHIP 2200000PF 6.3V Q0011 8-729-017-44 TRANSISTOR DTC114TKA-T146 C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-027-44 TRANSISTOR MSD601-RST1 C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0012 8-729-424-08 TRANSISTOR UN2111 C0019 1-165-128-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211 C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0008	1-107-826-11	CERAMIC CHIP 0	).1UF	10.00%	16V		8-729-424-08	TRANSISTOR U	N2111
C0011 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0008 8-729-027-44 TRANSISTOR DTC114TKA-T146  C0012 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V  Q0009 8-729-027-44 TRANSISTOR DTC114TKA-T146  C0013 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0010 8-729-027-44 TRANSISTOR DTC114TKA-T146  C0015 1-135-834-91 CERAMIC CHIP 2200000PF 6.3V Q0011 8-729-010-29 TRANSISTOR MSD601-RST1  C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-424-08 TRANSISTOR UN2111  C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211  C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V  C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V  C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V  C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W  C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0009	1-165-128-11	CERAMIC CHIP 0	.22UF		16V	Q0006	8-729-010-29	TRANSISTOR M	SD601-RST1
C0012 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V  Q0009 8-729-027-44 TRANSISTOR DTC114TKA-T146  C0013 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0010 8-729-027-44 TRANSISTOR DTC114TKA-T146  C0015 1-135-834-91 CERAMIC CHIP 2200000PF 6.3V Q0011 8-729-010-29 TRANSISTOR MSD601-RST1  C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-424-08 TRANSISTOR UN2111  C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211  C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V  C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V  C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W  C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W  C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0010	1-162-927-11	CERAMIC CHIP 1	LOOPF	5.00%	50V	Q0007	8-729-027-44	TRANSISTOR D	TC114TKA-T146
Q0009   8-729-027-44   TRANSISTOR DTC114TKA-T146	C0011	1-165-128-11	CERAMIC CHIP 0	.22UF		16V	Q0008	8-729-027-44	TRANSISTOR D	TC114TKA-T146
C0013 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0010 8-729-027-44 TRANSISTOR DTC114TKA-T146 C0015 1-135-834-91 CERAMIC CHIP 2200000PF 6.3V Q0011 8-729-010-29 TRANSISTOR MSD601-RST1 C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-424-08 TRANSISTOR UN2111 C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211 C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V	C0012	1-162-924-11	CERAMIC CHIP 5	6PF	5.00%	50V	l			
C0015 1-135-834-91 CERAMIC CHIP 2200000PF 6.3V Q0011 8-729-010-29 TRANSISTOR MSD601-RST1 C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-424-08 TRANSISTOR UN2111 C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211 C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V      CRESISTOR >       C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0							Q0009	8-729-027-44	TRANSISTOR D	TC114TKA-T146
C0016 1-165-128-11 CERAMIC CHIP 0.22UF 16V Q0012 8-729-424-08 TRANSISTOR UN2111 C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211 C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V   C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W C0028 1-126-947-11 ELECT 47UF 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0013									
C0017 1-162-924-11 CERAMIC CHIP 56PF 5.00% 50V Q0013 8-729-421-22 TRANSISTOR UN2211  C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V < RESISTOR >  C0025 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V C0026 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W C0027 1-162-962-11 CERAMIC CHIP 470PF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W C0028 1-126-947-11 ELECT 47UF 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0					F		1			
C0019 1-165-128-11 CERAMIC CHIP 0.22UF 16V							1			
C0025 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V  C0026 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V  C0027 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V  C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0					5.00%		Q0013	8-729-421-22	TRANSISTOR U	N2211
C0025 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V  C0026 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W  C0027 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W  C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0019	1-165-128-11	CERAMIC CHIP 0	.22UF		TPA		< RESI	STOR >	
C0026 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V R0001 1-216-045-00 RES-CHIP 680 5% 1/10W C0027 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W C0028 1-126-947-11 ELECT 470F 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0	C0025	1-162-962-11	CERAMIC CHIP 4	170PF	10.00%	50V			·	
C0027 1-162-962-11 CERAMIC CHIP 470FF 10.00% 50V R0002 1-216-055-00 RES-CHIP 1.8K 5% 1/10W R0002 1-126-947-11 ELECT 47UF 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0			CERAMIC CHIP 4	70PF	10.00%	50V	R0001	1-216-045-00	RES-CHIP	680 5% 1/10W
C0028 1-126-947-11 ELECT 47UF 20.00% 35V R0003 1-216-295-91 SHORT CHIP 0		1-162-962-11	CERAMIC CHIP 4	70PF	10.00%	50V	R0002	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
		1-126-947-11	ELECT 4	7UF	20.00%	35V	R0003	1-216-295-91	SHORT CHIP	0
							R0011	1-216-295-91	SHORT CHIP	0

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REF.NO.	PART.NO	DESCRIPTION		RI	EMARK	REF.NO.	PART.NO	DESCRIPTION		R	EMARK	
R0014	1-216-081-00	RES-CHIP	22K	5%	1/10W	R0073	1-216-809-11	METAL CHIP	100	5%	1/10W	
R0014	1-216-025-11	RES-CHIP	100	5%	1/10W	R0074	1-216-809-11	METAL CHIP	100	5%	1/10W	
R0015	1-216-093-91	RES-CHIP	68K	5%	1/10W	R0075	1-216-025-11	RES-CHIP	100	5%	1/10W	
	1-216-025-11	RES-CHIP	100	5%	1/10W	R0076	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R0018 R0019	1-216-023-11	RES-CHIP	10K	5% 5%	1/10W	R0078	1-216-817-11	METAL CHIP	470	5%	1/10W	
RUU19	1-210-0/3-91	NED CHII	1011	•	1,1011	1.0070				••	_,	
R0020	1-216-049-11	RES-CHIP	1K	5%	1/10W	R0079	1-216-065-91	RES-CHIP	4.7K		1/10W	
R0022	1-216-809-11	METAL CHIP	100	5%	1/10W	R0301	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R0023	1-216-097-11	RES-CHIP	100K	5%	1/10W	R0302	1-216-073-91	RES-CHIP	10K	5%	1/10W	
R0027	1-216-821-11	METAL CHIP	1K	5%	1/10W	R0303	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R0028	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0304	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R0029	1-216-025-11	RES-CHIP	100	5%	1/10W		< CRY	STAL >				
R0030	1-216-025-11	RES-CHIP	100	5%	1/10W	į.						
R0032	1-216-809-11	METAL CHIP	100	5%	1/10W	x0001	1-578-774-11	VIBRATOR, C	RYSTAL			
R0032	1-216-809-11	METAL CHIP	100	5%	1/10W	1	2 010 110 20					
R0034	1-218-725-11	METAL CHIP	24K	0.5%		* A-16	37-024-A G B	oard Complete				
										_		
R0035	1-216-069-00	RES-CHIP	6.8K		1/10W		* A-1637-024-A	COMPLETE PC	BOARD,	G		
R0037	1-216-061-91	RES-CHIP	3.3K	5%	1/10W							
R0039	1-216-809-11	METAL CHIP	100	5%	1/10W		4-382-854-01	SCREW (M3X8)	, P, SW	(+)		
R0040	1-216-809-11	METAL CHIP	100	5%	1/10W							
R0041	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		< CAP.	ACITOR >				
R0042	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	C6001 /	A 1-165-528-11	MYLAR	0.1UF		10	275V
R0043	1-216-803-11	METAL CHIP	33	5%	1/10W	C6002	△ 1-165-528-11	MYLAR	0.1UF		10	2757
R0044	1-216-025-11	RES-CHIP	100	5%	1/10W	C6003	A 1-119-899-51	CERAMIC	1000PF		10.00%	2507
R0045	1-216-803-11	METAL CHIP	33	5%	1/10W	C6004	A 1-119-899-51	CERAMIC	1000PF		10.00%	250V
R0045	1-216-803-11	METAL CHIP	33	<b>5</b> %	1/10W	C6005	1-126-965-91	ELECT	22UF		20.00%	507
20047	1 01 6 010 11	METAL CHIP	120	5%	1/10W	C6006	1-117-753-11	ELECT (BLOCK)	470UF		20.00%	450V
R0047	1-216-810-11		100	აუ 5%	1/10W 1/10W	C6007	1-126-964-11	ELECT	10UF		20.00%	
R0048	1-216-809-11	METAL CHIP				C6008	1-126-963-11	ELECT	4.7UF		20.00%	
R0049	1-216-073-91	RES-CHIP	10K	5% 50	1/10W	C6010	1-136-497-81	FILM	0.1UF		5.00%	
R0050	1-216-810-11	METAL CHIP	120	5% = 0	1/10W	C6010	1-162-964-11	CERAMIC CHI		r	10.00%	
R0051	1-216-835-11	METAL CHIP	15K	5%	1/10W	CBUII	1-102-304-11	CERAMIC CHI	0.0010	r	10.000	301
R0052	1-216-810-11	METAL CHIP	120	5%	1/10W		∆ 1-104-571-91	CERAMIC	0.0015		10.00%	
R0053	1-216-809-11	METAL CHIP	100	5%	1/10W	300000000000000000000000000000000000000	∆ 1-104-571-91	CERAMIC	0.0015	UF	10.00%	
R0054	1-216-809-11	METAL CHIP	100	5%	1/10W	C6015	1-115-339-11	CERAMIC CHI	0.1UF		10.00%	
R0055	1-216-809-11	METAL CHIP	100	5%	1/10W	C6016	△ 1-104-571-91	CERAMIC	0.0015	UF	10.00%	2KV
R0056	1-216-833-11	METAL CHIP	10K	5%	1/10W	C6017 /	A 1-104-571-91	CERAMIC	0.0015	UF	10.00%	2KV
R0057	1-216-809-11	METAL CHIP	100	5%	1/10W	C6018	1-126-949-11	ELECT	220UF		20.00%	35V
R0057	1-216-823-11	METAL CHIP	1.5K		1/10W	C6020	1-135-946-22	FILM	47000P	F	3%	800V
	1-216-823-11	METAL CHIP	47K	5%	1/10W	C6021	1-164-645-11	CERAMIC	1000PF		10.00%	
R0059		METAL CHIP	10K	5%	1/10W	C6022	1-126-963-11	ELECT	4.7UF		20.00%	
R0060	1-216-833-11					C6022	1-110-626-11	ELECT	330UF		20.00%	
R0061	1-216-833-11	METAL CHIP	10K	5%	1/10W	C0023	T TIA A50-11	edii() i	JJVVE		0	
R0062	1-216-833-11	METAL CHIP	10K	5%	1/10W	C6024	1-164-625-11	CERAMIC	680PF		10.00%	
R0063	1-216-073-91	RES-CHIP	10K	5%	1/10W	C6025	1-164-625-11	CERAMIC	680PF		10.00%	
R0065	1-216-073-91	RES-CHIP	10K	5%	1/10W	C6026	1-164-625-11	CERAMIC	680PF		10.00%	
R0066	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	C6027	1-164-625-11	CERAMIC	680PF		10.00%	
R0067	1-216-833-11	METAL CHIP	10K	5%	1/10W	C6028	1-128-548-11	ELECT	4700UF		20.00%	25V
D0060	1_01 &_000_11	METAL CHIP	10K	5%	1/10W	C6029	1-126-939-11	ELECT	100000	F	20.00%	16V
R0068	1-216-833-11			5%	1/10W 1/10W	C6030	1-119-940-51	ELECT	4700UF		20.00%	
R0069	1-216-073-91	RES-CHIP	10K			C6030	1-535-143-71	LEAD, JUMPER				<b>-</b> 7.
R0070	1-216-025-11	RES-CHIP	100	5% 5%	1/10W 1/10W		1-333-143-71 A 1-113-927-11	CERAMIC	0.01UF			250V
			4 (1/1)	R.Y	4 4 1 1 1 1 1 1 1			CONTRACTOR OF THE PARTY OF THE				arang ang salah dalah
R0071 R0072	1-216-809-11 1-216-809-11	METAL CHIP METAL CHIP	100 100	5%	1/10W 1/10W	C6033	1-162-964-11	CERAMIC CHIE	***************************************	***********	10.00%	

Note: The components identified by shading and marked A are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK		REF.NO.	PART.NO	DESCRIPTION		REMARK
C6034	1-162-968-11	CERAMIC CHIP 0.00470	JF 10.00%	50V	FB6005	1-535-303-00	LEAD, JUMPER	(5.0MM)	
C6035	1-136-497-81	FILM 0.1UF	5.00%		FB6006	1-535-303-00	LEAD, JUMPER	•	
	1-136-479-11	FILM 0.001U			120000	1 333 303 00		(0.000)	
C6036	1-136-479-11	ELECT 47UF	20.00%			< IC			
C6037		CERAMIC 1000PF				<b>\ 1</b> C			
C6038	1-164-645-11	CERAMIC 1000FF	10.000	3001	700001	8-759-670-30	IC MCZ3001D		
~~~	1 105 001 11	CERAMIC CHIP 0.47UF	10.00%	1.077	IC6001	8-749-016-19	IC SE135N-LF4		
C6039	1-125-891-11				IC6003	8-749-016-19	IC SEISSM-TE	ŧ	
C6040	1-115-340-11	CERAMIC CHIP 0.22UF					<b></b> .		
C6045	1-115-339-11	CERAMIC CHIP 0.1UF	10.00%			< COI	т >		
C6102	1-126-943-11	ELECT 2200UF							
C6103	1-126-971-11	ELECT 470UF	20.00%	50V	L6001	1-406-663-21	INDUCTOR	47UH	
					L6002	1-412-529-11	INDUCTOR	22UH	
C6105	1-126-964-11	ELECT 10UF	20.00%		L6003	1-412-529-11	INDUCTOR	22UH	
C6106	1-126-964-11	ELECT 10UF	20.00%	50₹	L6004	1-535-303-00	LEAD, JUMPER	(5.0MM)	
	Z CON	NECTOR >			L6005	1-535-303-00	LEAD, JUMPER	(5.0MM)	
	₹ CON	MECIUR >			L6006	1-406-659-11	INDUCTOR	10UH	
CN6001	△ * 1-691-291-11	PIN, CONNECTOR (PC	BOARD) 5P		L6007	1-412-525-31	INDUCTOR	10UH	
CN6003	△ * 1-508-786-00 △ * 1-508-765-00	PIN, CONNECTOR (5MM PIN, CONNECTOR (5MM	PITCH) 3P			< PHO	OTOCOUPLER >		
CN6004 CN6005	↑ 1-691-960-11 * 1-564-509-11	PIN, CONNECTOR (PC PLUG, CONNECTOR 6P	BURRU) JE		PH6001	△ 8-749-016-21	IC TCET1103G		
CN6006	* 1-564-516-11	PLUG, CONNECTOR 13F	)			< TR	ANSISTOR >		
CN6008	1-816-981-71	PLUG, CONNECTOR 4P							
					Q6003	8-729-010-29	TRANSISTOR M	SD601-RST1	
	< DIC	DDE >			Q6005	8-729-029-56	TRANSISTOR D	Ta144esa	
					Q6006	6-550-698-01	TRANSISTOR S	PA08N50C3-E	8152
D6001	6-500-067-01	DIODE GSIB460L/45			Q6007	6-550-698-01	TRANSISTOR S	PA08N50C3-E	8152
D6002	8-719-982-26	DIODE MTZJ-33B			06010	8-729-119-78	TRANSISTOR 2	SC2785-HFE	
D6004	8-719-979-64	DIODE UF4005PKG23			•				
D6006	8-719-081-97	DIODE MMDL914T1			Q6101	8-729-029-56	TRANSISTOR D	TA144ESA	
D6007	8-719-081-97	DIODE MMDL914T1			Q6102	8-729-010-29	TRANSISTOR M	SD601-RST1	
<b>D</b> 0007	0 /20 002 0				Q6103	8-729-029-56		TA144ESA	
D6008	8-719-063-70	DIODE D1NL20U			Q6104	8-729-010-29		SD601-RST1	
D6009	8-719-110-41	DIODE RD15ESB2			Q6105	8-729-010-29			
	8-719-085-24	DIODE FBIU4D7M1-B			Q0102	0 725 010 25	114401010101		
D6010	8-719-312-47	DIODE RBA-406B			ŀ	/ DE	SISTOR >		
D6016		DIODE EK19-VO				\ KE	212104 >		
D6031	8-719-080-59	DIONE EVIA-AA				1 016 005 01	CHOD MODIO	٨	
	A 84A AAA 84	BTABS 571 A **A			JR6004	1-216-295-91	SHORT CHIP	0	
D6032	8-719-080-59	DIODE EK19-VO				. 1 000 000 55	**************************************	A 1 1A0	1 /Ota
D6033	8-719-022-97	DIODE D2S4MF				△ 1-202-933-61		0.1 10%	
D6034	8-719-022-97	DIODE D2S4MF	a.			△ 1-205-998-11		1 5%	10W
D6035	1-535-303-00	LEAD, JUMPER (5.0M)	1)			△ 1-205-998-11		1 5%	10W
D6036	1-216-295-91	SHORT CHIP 0			***************************************	△ 1-205-998-11	***************************************	1 5%	10W
					R6007	1-243-979-21	METAL OXIDE	0.1 5%	2W
D6101	8-719-081-97	DIODE MMDL914T1							
D6102	8-719-511-40	DIODE S1VB40			R6008	1-243-979-21	METAL OXIDE	0.1 5%	2W
D6103	8-719-081-97	DIODE MMDL914T1			R6009	1-208-810-11	METAL CHIP	15K 0.5	% 1/10W
D6104	8-719-081-97	DIODE MMDL914T1			R6010	1-215-481-00	METAL	330K 1%	1/4W
D6105	8-719-081-97	DIODE MMDL914T1			R6013	△ 1-218-265-11	00000000000000000000000000000000000000	8.2M 5%	1W
					R6014	1-215-926-00	***************************************	33K 5%	3W
D6106	8-719-081-97	DIODE MMDL914T1							
D6107	8-719-081-97	DIODE MMDL914T1			R6015	1-208-757-11	METAL CHIP	91 0.5	% 1/10W
20101	U 125 VV2 51				R6016	1-216-821-11		1K 5%	1/10W
	∠ ₽₽!	RRITE BEAD >			R6017	1-216-833-11		10K 5%	1/10W
	✓ FEF	WALE DEED /			R6017	1-260-131-11		470K 5%	1/2W
ED COOO	1-410-397-21	FERRITE 1.10	TH		R6019	1-260-131-11		330K 5%	1/2W
FB6002	1-410-397-21	FERRITE 1.10			KOOTA	1700-172-11	CULTION	JJVII J0	-, -"

1.1UH

FERRITE

1-410-397-21

FB6003

Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

GIID	G    D
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REF.NO.	PART.NO	DESCRIPTION		R	EMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK	
R6020	1-216-820-11	METAL CHIP	820	5%	1/10W	* A-164	10-432-A D Bo	ard Complete			
86021	1-216-362-11	METAL OXIDE	0.27	5%	2W						
26022	1-216-833-11	METAL CHIP	10K	5%	1/10W		4-382-854-01	SCREW (M3X8)	, P, SW (+)		
36024	1-216-615-11	METAL CHIP	33	0.5%	1/10W	1					
R6029	1-216-833-11	METAL CHIP	10K	5%	1/10W		< CAPA	CITOR >			
NOV23					·						
R6030	1-216-817-11	METAL CHIP	470	5%	1/10W	C8100	1-136-497-81	FILM	0.1UF	5.00%	50V
R6032	1-249-417-11	CARBON	1K	5%	1/4W	C8101	1-136-497-81	FILM	0.1UF	5.00%	50V
R6033	1-215-481-00	METAL	330K	1%	1/4W	C8102	1-136-497-81	FILM	0.1UF	5.00%	50V
R6034	1-249-389-11	CARBON	4.7	5%	1/4W	C8103	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
R6035	1-260-083-11	CARBON	47	5%	1/2W	C8104	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
KOUSS	1-200-005 11	CHAON	•	•	-,	1					
R6036	1-216-817-11	METAL CHIP	470	5%	1/10W	C8105	1-126-947-11	ELECT	47UF	20.00%	35V
	1-249-405-11	CARBON	100	5%	1/4W	C8106	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
R6037	1-208-830-11	METAL CHIP	100K		•	C8107	1-208-820-11	METAL CHIP	39K	0.5%	1/10
R6038	1-208-830-11	METAL CHIP	100K		-•	C8108	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
R6039	1-208-814-91	METAL CHIP	22K	0.5%	•	C8109	1-126-947-11	ELECT	47UF	20.00%	35V
R6040	1-208-814-91	MEIAL CRIP	22N	0.5	1/1011	00203					
T-C0 40	1_016_005_01	SHORT CHIP	0			C8113	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
R6042	1-216-295-91	METAL CHIP	330	0.5%	1/10W	C8114	1-126-964-11	ELECT	10UF	20.00%	
R6045	1-216-639-11	METAL CHIP	330K			C8115	1-162-962-11	CERAMIC CHIP		10.00%	
R6047	1-208-842-11		330K		1/10W 1/4W	C8115	1-115-416-11	CERAMIC CHIP		5.00%	25V
R6048	1-215-481-00	METAL METAL CHID	9.1K			C8117	1-115-416-11	CERAMIC CHIP		5.00%	25V
R6049	1-208-805-11	METAL CHIP	9.1K	U.3*	1/10W	6011/	1 113-410-11	Calcult Citt	V . V V & V E	2.000	'
	4 AAA 85A 41	APPROX ATTE	100	A E0	1 /1 017	C8118	1-162-970-11	CERAMIC CHIP	0 01HF	10.00%	25V
R6050	1-208-758-11	METAL CHIP	100	0.5%		C8119	1-107-826-11	CERAMIC CHIP		10.00%	
R6054	1-216-615-11	METAL CHIP	33	0.5%	1/10W	C8120	1-165-176-11	CERAMIC CHIP		10.00%	
R6056	1-216-295-91	SHORT CHIP	0		1 /1 012	C8125	1-162-968-11	CERAMIC CHIP		10.00%	
R6057	1-208-798-11	METAL CHIP	4.7K		•	1	1-165-176-11	CERAMIC CHIE		10.00%	
R6101	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8126	1-103-1/0-11	CERAMIC CHIE	0.04702	10.000	104
					4 /4 000	20100	1 160 060 11	CERAMIC CHIE	0 0047112	10.00%	5037
R6102	1-216-829-11	METAL CHIP	4.7K		1/10W	C8128	1-162-968-11	CERAMIC CHIE		5.00%	50V
R6103	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8130	1-164-230-11			20.00%	
R6104	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8131	1-126-964-11	ELECT	10UF		50V
R6105	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8132	1-164-230-11	CERAMIC CHIE		5.00% 0.25PF	
R6106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C8134	1-102-935-00	CERAMIC	2PF	U.25PE	200
					4.14.4		1 100 001 11	77.70	1 0000	20.000	. EAT7
R6107	1-216-829-11	METAL CHIP	4.7K		1/10W	C8135	1-126-964-11	ELECT	10UF	20.00%	
R6108	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8136	1-126-964-11	ELECT	10UF	20.00%	
R6109	1-216-829-11	METAL CHIP	4.7K		1/10W	C8140	1-164-004-11	CERAMIC CHIE		10.00%	23V
R6110	1-216-821-11	METAL CHIP	1K	5%	1/10W	C8141	1-535-303-00	LEAD, JUMPER		10 000	1 (77
						C8207	1-165-176-11	CERAMIC CHIL	? 0.04/UE	10.00%	10V
	< REL	AY >								10.000	A544
						C8208	1-162-970-11	CERAMIC CHII		10.00%	
RY6001	△ 1-755-395-11	RELAY (AC PO	OWER)			C8209	1-164-315-11	CERAMIC CHIE		5.00%	
RY6002	△ 1-755-389-11	RELAY (AC PO	OWER)			C8210	1-162-964-11	CERAMIC CHIL		10.00%	
						C8801	1-126-947-11	ELECT	47UF	20.00%	
	< TRA	nsformer >				C8802	1-126-960-11	ELECT	1UF	20.00%	50V
<b>T</b> 6002	△ 1-437-850-12	(PIT) CONVE	RTER TR	ansfor	MER	C8803	1-126-960-11	ELECT	1UF	20.00%	
T6003	△ 1-424-896-11	TRANSFORMER				C8804	1-102-114-00	CERAMIC	470PF	10.00%	
T6101	△ 1-437-483-11	TRANSFORMER	, STAND	BY		C8805	1-102-114-00	CERAMIC	470PF	10.00%	
						C8808	1-102-030-00	CERAMIC	330PF	10.00%	5007
	< THE	RMISTOR >				C8809	1-102-030-00	CERAMIC	330PF	10.00%	5007
TH6002	△ 1-804-650-11	THERMISTOR	POSITI	VE		C8810	1-107-368-11	MYLAR	0.047UF	10.00%	2001
						C8811	1-107-368-11	MYLAR	0.047UF	10.00%	
						C8812	1-162-131-11	CERAMIC	220PF	10.00%	2KV
						C8813	1-107-444-11	CERAMIC	100PF	5.00%	2KV
						00013		<b>4</b>			

REF.NO.	PART.NO	DESCRIPTION		REMARK		REF.NO.	PART.NO	DESCRIPTION	REMARK
C8815	1-117-835-11	FILM	6200PF	3.00%	1.5KV	D8128	8-719-081-97	DIODE MMDL914T	[
C8816	1-162-964-11	CERAMIC CHIP		10.00%		D8129	8-719-081-97	DIODE MMDL914T	L
C8817	1-125-893-11	FILM	680PF	3.00%		D8132	8-719-081-97	DIODE MMDL914T	L
C8818	1-125-893-11	FILM	680PF	3.00%		D8133	8-719-081-97	DIODE MMDL914T	[
C8819	1-125-893-11	FILM	680PF	3.00%		D8198	1-535-303-00	LEAD, JUMPER (	5.0MM)
C0013	1-125-695-11	PILM	00011	5.000	1,011		- 000 000 00		
C8820	1-125-893-11	FILM	680PF	3.00%	1.5KV	D8199	8-719-081-97	DIODE MMDL914T	1
C8824	1-107-846-11	FILM	0.1UF	5.00%	400V	D8611	8-719-081-97	DIODE MMDL914T	1
C8825	1-117-663-11	FILM	0.22UF	5.00%	250V	D8612	8-719-081-97	DIODE MMDL914T	1
C8826	1-115-518-11	FILM	0.47UF	5.00%	250V	D8803	8-719-908-03	DIODE GP08D	
C8827	1-117-660-21	FILM	0.12UF	5.00%	250V	D8805	8-719-302-43	DIODE EL1Z	
C8828	1-127-681-11	FILM	10000PF	2%	100V	D8806	8-719-979-85	DIODE EGP20G	
C8829	1-127-680-11	FILM	4700PF	2%	100V	D8807	8-719-085-12	DIODE BYV98-20	0-RAS 15/12
C8830	1-107-655-11	ELECT	47UF	20.00%		D8808	8-719-085-12	DIODE BYV98-20	0-RAS 15/12
C8831	1-102-228-00	CERAMIC	470PF	10.00%		D8811	8-719-110-41	DIODE RD15ESB2	
C8832	1-126-941-11	ELECT	470UF	20.00%		D8818	8-719-109-89	DIODE RD5.6ESB	2
C0032	1-120-341-11	EMEC1	4,002	20.000			V /20 200 00		
C8833	1-126-941-11	ELECT	470UF	20.00%	25V	D8819	8-719-050-38	DIODE M1MA152W	
C8834	1-102-228-00	CERAMIC	470PF	10.00%	500V	D8820	8-719-081-97	DIODE MMDL914T	1
C8835	1-102-228-00	CERAMIC	470PF	10.00%	500V	D8851	8-719-970-87	DIODE ERA38-06	
C8836	1-123-024-21	ELECT	33UF		160V	D8856	8-719-081-97	DIODE MMDL914T	1
C8837	1-106-375-12	MYLAR	0.022UF	5.00%	2007	D8857	8-719-110-41	DIODE RD15ESB2	
****	1 105 176 11	CERAMIC CHIP	0 047 <del>00</del>	10.00%	160	D8858	8-719-081-97	DIODE MMDL914T	1
C8840	1-165-176-11	ELECT	47UF	20.00%		D8860	8-719-110-41	DIODE RD15ESB2	
C8841	1-126-947-11		0.18UF	5.00%		D0000	0 /13 110 41	D1000 1010000L	
C8844	1-115-513-21	FILM	220PF	10.00%			✓ ₽₽₽₽	ITE BEAD >	
C8851	1-162-131-11	CERAMIC					\ P.M.M.	IIE DUAD /	
C8852	1-162-129-00	CERAMIC	150PF	10.00%	ZAV	10000C	1-410-397-21	FERRITE	1.1UH
			A AAAA	• • • • • • • • • • • • • • • • • • •	C3 Av2	FB8806	1-410-397-21	FERRITE	1.10H
C8853	1-129-898-00	FILM	0.0022UF	5.00%		FB8807	1-410-397-21	PERKITE	1.100
C8855	1-136-205-11	MYLAR	0.022UF	5.00%			< IC >		
C8856	1-102-030-00	CERAMIC	330PF	10.00%			( 1C )		
C8860	1-162-964-11	CERAMIC CHIP		10.00%		IC8100	8-759-659-67	IC LA6393DLL	
C8861	1-162-927-11	CERAMIC CHIP	TOOPE	5.00%	307	1	8-759-659-67	IC LA6393DLL	
		CERAMIC CHIP	A AA1***	10 000	E Att	IC8101 IC8102	8-759-638-79	IC NJM3404AD-W	,
C8869	1-162-964-11	CERAMIC CHIP	O.OOTOR	10.00%	201	IC8102	8-759-659-67	IC LA6393DLL	
	< CONN	IECTOR >				100103	0-739-039-07	IC DW0333000	
							< COIL	>	
CN8600	* 1-817-037-61	PLUG, CONNEC							4 4
CN8601	* 1-816-980-71	PLUG, CONNEC	TOR 3P			L8801	1-410-397-21	FERRITE	1.10H
CN8611	* 1-785-270-12	PIN, DY CONN		BOARD)		L8802	1-410-397-21	FERRITE	1.1UH
CN8612	* 1-564-511-11	PLUG, CONNEC				L8803	1-410-397-21	FERRITE	1.10H
CN8614	* 1-564-508-11	PLUG, CONNEC	TOR 5P			L8805	1-408-947-00	INDUCTOR	2.2MH
						L8851	1-535-303-00	LEAD, JUMPER	(5.0MM)
CN8616	1-695-915-11	TAB (CONTACT	)						
CN8620	1-764-333-11	PIN, CONNECT	OR (PCB) (V T	TYPE) 10P			< INDU	CTOR >	
CN8810	* 1-564-510-11	PLUG, CONNEC	TOR 7P					=140 ************************************	0.000
						LF8801	1-406-985-11	INDUCTOR	2.2MH
	< DIOI	)E >				LF8851	1-406-674-11	INDUCTOR	3.3MH
D8102	8-719-081-97	DIODE MMDL91	4T1				< TRAN	SISTOR >	
D8103	8-719-081-97	DIODE MMDL91							
D8104	8-719-081-97	DIODE MMDL91				Q8100	8-729-010-29	TRANSISTOR MSD	601-RST1
D8105	8-719-081-97	DIODE MMDL91				Q8101	8-729-010-29	TRANSISTOR MSD	601-RST1
D8103	8-719-081-97	DIODE MMDL91				Q8102	8-729-010-29	TRANSISTOR MSD	601-RST1
20201						Q8103	8-729-010-29	TRANSISTOR MSD	601-RST1
D8108	8-719-921-40	DIODE MTZJ-4	.7C			Q8104	8-729-010-29	TRANSISTOR MSD	601-RST1
						1			

REF.NO.	PART.NO	DESCRIPTION		REI	MARK	REF.NO.	PART.NO	DESCRIPTION		RE	MARK
Q8105	8-729-010-29	TRANSISTOR MSD	601-RST1			R8113	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8106	8-729-010-29	TRANSISTOR MSD	601-RST1			R8114	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8107	8-729-010-29	TRANSISTOR MSD				R8115	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q8108	8-729-010-05	TRANSISTOR MSE	709-RT1			R8116	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q8110	8-729-010-05	TRANSISTOR MSE	709-RT1			R8117	1-216-833-11	METAL CHIP	10K	5%	1/10W
2											
Q8112	8-729-010-29	TRANSISTOR MSI	601-RST1			R8118	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8113	8-729-010-29	TRANSISTOR MSI	601-RST1			R8119	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8115	8-729-010-05	TRANSISTOR MSE	709-RT1			R8120	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8118	8-729-010-29	TRANSISTOR MSI	601-RST1	L		R8121	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8119	8-729-010-05	TRANSISTOR MSF	3709-RT1			R8122	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
00100	0 700 010-05	TRANSISTOR MSE	700_0#1			R8123	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q8120	8-729-010-05 8-729-010-05	TRANSISTOR MSE				R8124	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q8122	8-729-010-05	TRANSISTOR MSI				R8125	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8123	8-729-010-03	TRANSISTOR MSI		ı		R8126	1-216-815-11	METAL CHIP	330	5%	1/10W
Q8125 Q8126	8-729-010-25	TRANSISTOR MSI		•		R8127	1-208-794-11	METAL CHIP			1/10W
Q0120	6-129-010-03	TRANSISTOR MAI	,,,, KII			10127	1 200 /33 11	121112 0111	31011	****	-,
Q8127	8-729-010-05	TRANSISTOR MS	3709-RT1			R8128	1-208-822-11	METAL CHIP	47K		1/10W
Q8128	8-729-010-29	TRANSISTOR MSI	0601-RST	L		R8129	1-208-822-11	METAL CHIP	47K		1/10W
Q8132	8-729-421-19	TRANSISTOR UNA	2213			R8130	1-208-846-11	METAL CHIP	470K		1/10W
Q8135	8-729-010-29	TRANSISTOR MSI		L		R8131	1-216-815-11	METAL CHIP	330	5%	1/10W
Q8136	8-729-010-05	TRANSISTOR MS	3709-RT1			R8132	1-216-815-11	METAL CHIP	330	5₺	1/10W
Q8137	8-729-010-29	TRANSISTOR MSI	)601-RST	Ĺ		R8133	1-216-815-11	METAL CHIP	330	5₺	1/10W
Q8201	8-729-010-29	TRANSISTOR MSI	0601-RST	L		R8136	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
Q8202	8-729-010-29	TRANSISTOR MSI				R8137	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
Q8203	8-729-010-05	TRANSISTOR MS				R8138	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
Q8455	8-729-010-29	TRANSISTOR MSI	0601-RST	l		R8139	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
00001	8-729-048-47	TRANSISTOR 2SO	2688 (5) -	-T.K		R8140	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8801	8-729-048-47	TRANSISTOR 250				R8141	1-208-814-91	METAL CHIP	22K		1/10W
Q8802	8-729-056-16	TRANSISTOR 2SO				R8142	1-208-803-11	METAL CHIP	7.5K		1/10W
Q8803 Q8804	8-729-056-17	TRANSISTOR 2S				R8143	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8805	8-729-050-17	TRANSISTOR IN		11 UE	•	R8144	1-216-841-11	METAL CHIP	47K	5%	1/10W
<b>7</b> 0000	0-123 030 40	IIIIIIIIIIIII III	. 02. 000								
Q8806	8-729-047-59	TRANSISTOR ST	SNB40FP			R8145	1-216-825-11	METAL CHIP	2.2K		1/10W
Q8807	8-729-421-19	TRANSISTOR UN	2213			R8146	1-208-790-11	METAL CHIP			1/10W
Q8822	8-729-010-29	TRANSISTOR MSI	0601-RST	l		R8149	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
Q8823	8-729-424-08	TRANSISTOR UN	2111			R8150	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q8851	6-550-012-01	TRANSISTOR ST	25NB40 (03	33Y)		R8153	1-216-295-91	SHORT CHIP	0		
	< RES	ISTOR >				R8154	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
						R8155	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R8100	1-216-813-11	METAL CHIP	220 59	}	1/10W	R8158	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R8101	1-216-813-11	METAL CHIP	220 59		1/10W	R8159	1-216-295-91	SHORT CHIP	0		
R8102	1-216-825-11	METAL CHIP	2.2K 59		1/10W	R8160	1-216-295-91	SHORT CHIP	0		
R8103	1-216-825-11	METAL CHIP	2.2K 59		1/10W						
R8104	1-216-825-11	METAL CHIP	2.2K 59		1/10W	R8161	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
						R8162	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8105	1-216-821-11	METAL CHIP	1K 59	ł	1/10W	R8163	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8106	1-216-825-11	METAL CHIP	2.2K 59		1/10W	R8164	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8107	1-208-792-11	METAL CHIP	2.7K 0.			R8165	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8108	1-208-792-11	METAL CHIP	2.7K 0.								
R8109	1-208-814-91	METAL CHIP			1/10W	R8168	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
-						R8169	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8110	1-208-814-91	METAL CHIP	22K 0.	5%	1/10W	R8170	1-216-815-11	METAL CHIP	330	5%	1/10W
R8111	1-216-825-11		2.2K 58	<b>;</b>	1/10W	R8171	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8112	1-216-825-11	METAL CHIP	2.2K 58	<b>;</b>	1/10W	R8174	1-216-834-11	METAL CHIP	12K	5%	1/10W
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			J				DADTNO	PECADIPTION		Dr	·MARK
REF.NO.	PART.NO	DESCRIPTION			EMARK	REF.NO.	PART.NO	DESCRIPTION			MARK
R8175	1-218-867-11	METAL CHIP			1/10W	R8817	1-216-361-00	METAL OXIDE		5%	2W
R8176	1-216-838-11	METAL CHIP	27K	5%	1/10W	R8818	1-249-405-11	CARBON		5%	1/4W
R8177	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R8819	1-247-807-31	CARBON	100	5%	1/4W
R8179	1-216-295-91	SHORT CHIP	0			R8831	1-260-124-11	CARBON	120K	5%	1/2W
R8180	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8833	1-202-972-61	FUSIBLE	1	5%	1/4W
R8181	1-216-295-91	SHORT CHIP	0			R8834	1-260-288-11	CARBON	0.47	5%	1/2W
R8182	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8835	1-260-288-11	CARBON	0.47	5%	1/2W
R8183	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8836	1-249-432-11	CARBON	18K	5%	1/4W
	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R8837	1-215-894-11	METAL OXIDE		5%	2W
R8186 R8188	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8838	1-214-905-11	METAL	47K	1%	1/2W
	1 01 0 000 11	AMMAT GUID	1 00	5%	1/10W	R8839	1-215-894-11	METAL OXIDE	2.2K	5&	2W
R8189	1-216-822-11	METAL CHIP	1.2K					CARBON	3.3K		1/4W
R8190	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8840	1-247-843-11				1/4W 1/2W
R8191	1-215-925-11	METAL OXIDE	22K	5%	3W	R8842	1-260-123-11	CARBON	100K		
R8196	1-249-377-11	CARBON	0.47	5%	1/4W	R8843	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8197	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8844	1-216-829-11	METAL CHIP	4.7K	5*	1/10W
R8203	1-208-789-11	METAL CHIP	2K	0.5%	1/10W	R8845	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8204	1-216-295-91	SHORT CHIP	0			R8851	1-260-123-11	CARBON	100K	5%	1/2W
R8205	1-216-295-91	SHORT CHIP	0			R8852	1-260-123-11	CARBON	100K	5%	1/2W
R8206	1-216-849-11	METAL CHIP	220K	5%	1/10W	R8853	1-260-123-11	CARBON	100K	5%	1/2W
R8207	1-216-846-11	METAL CHIP	120K		1/10W	R8854	1-249-425-11	CARBON	4.7K	5%	1/4W
20000	1-216-295-91	SHORT CHIP	0			R8856	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8209		METAL CHIP	2.2K	5%	1/10W	R8857	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8210	1-216-825-11		10K	ეა 5%	1/10W	R8858	1-215-922-11	METAL OXIDE		5%	3W
R8211	1-216-833-11	METAL CHIP		5% 5%	•	R8859	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8212 R8215	1-216-825-11 1-208-814-91	METAL CHIP METAL CHIP	2.2K 22K		1/10W 1/10W	R8865	1-216-829-11	METAL CHIP	4.7K		1/10W
R8216	1-208-812-11	METAL CHIP	18K	0.5%	•	R8866	1-216-295-91	SHORT CHIP	0		d (d a
R8217	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8867	1-216-829-11	METAL CHIP	4.7K		1/10W
R8219	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8869	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8220	1-216-834-11	METAL CHIP	12K	5%	1/10W	R8870	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8221	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8223	1-164-230-11	CERAMIC CHIP	220PF		5.00% 50V	R8886	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R8224	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R8887	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8456	1-216-845-11	METAL CHIP	100K		1/10W	R8888	1-249-441-11	CARBON	100K	5%	1/4W
R8457	1-216-834-11	METAL CHIP	12K	5%	1/10W	R8895	1-249-443-11	CARBON	0.47		1/4W
R8458	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8896	1-249-443-11	CARBON	0.47		1/4W
	1 010 005 11	Mana anto	0 022	E 0.	1 /1 014	R8897	1-215-485-00	METAL	470K	1&	1/4W
R8459	1-216-825-11	METAL CHIP	2.2K		1/10W	1	1-215-493-00	METAL	1M	1%	1/4W
R8800	1-247-895-91	CARBON	470K		1/4W	R8898	1-215-493-00		1M	18	1/4W
R8804	1-249-408-11	CARBON	180	5% =°	1/4W	R8899	1-213-493-00	METAL	TM	7.9	7/ 311
R8805	1-249-408-11	CARBON	180	5%	1/4W		. ====				
R8806	1-249-411-11	CARBON	330	5%	1/4W		< TRAI	nsformer >			
R8807	1-249-411-11	CARBON	330	5%	1/4W	T8800	<u>A</u> 8-598-851-50	TRANSFORMER	ASSY FL	YBACK	NX-4522//Z
R8808	1-260-340-11	CARBON	10K	5%	1/2W	T8801	1-437-430-11	TRANSFORMER,	FERRIT	E (HDI	')
R8809	1-260-340-11	CARBON	10K	5%	1/2W	T8802	1-437-430-11	TRANSFORMER,	FERRIT	E (HDI	')
R8810	1-215-895-11	METAL OXIDE	3.3K		2W	T8852	1-433-487-12	TRANSFORMER,	FERRIT	E (DFI	')
R8811	1-215-896-00	METAL OXIDE	4.7K		2W			,			
D0010	1_016_#61_00	METAL OXIDE	5.6K	ĘQ.	2W						
R8812	1-216-461-00										
R8813	1-215-895-11	METAL OXIDE	3.3K		2W						
R8814	1-215-880-00	METAL OXIDE	10	5% E0	2W						
R8815	1-215-880-00	METAL OXIDE	10	5% Fo	2W						
R8816	1-216-365-00	METAL OXIDE	0.47	5*	2W						



REF.NO.	PART.NO	DESCRIPTION		REMARK		REF.NO.	PART.NO	DESCRIPTION		F	REMARK
* A-130	0-626-A VM B	oard Comple	te			Q7403	8-729-119-78	TRANSISTOR 25			
						Q7404	8-729-026-49	TRANSISTOR 25			6-R
	4-382-854-01	SCREW (M3X8)	, P, SW (+)			Q7405	8-729-026-39	TRANSISTOR 25		-QT	
						Q7406	8-729-045-05	TRANSISTOR 25			
	< CAPAC	CITOR >				Q7407	8-729-045-04	TRANSISTOR 25	C5511		
C7401	1-126-935-11	ELECT	470UF	20.00%	16V	Q7408	8-729-026-49	TRANSISTOR 2	3A1037A	K-T14	6-R
27403	1-104-655-91	ELECT	470UF	20.00%	6.3V	Q7409	8-729-010-29	TRANSISTOR M	:D601-R	ST1	
27404	1-115-339-11	CERAMIC CHI	P 0.1UF	10.00%	50V						
7405	1-126-933-11	ELECT	100UF	20.00%	16V		< RESI	STOR >			
C7406	1-104-655-91	ELECT	470UF	20.00%	6.3V						
						R7400	1-216-017-91	RES-CHIP	47	5%	1/10W
C7407	1-107-364-11	MYLAR	0.01UF	10.00%	200V	R7401	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
C7408	1-107-364-11	MYLAR	0.01UF	10.00%	200V	R7402	1-216-041-00	RES-CHIP	470	5%	1/10W
C7409	1-107-649-11	ELECT	2.2UF	20.00%	250V	R7403	1-249-393-11	CARBON	10	5%	1/4W
C7 <b>41</b> 0	1-130-471-00	MYLAR	0.001UF	5.00%	50V	R7404	1-249-413-11	CARBON	470	5%	1/4W
C7411	1-130-471-00	MYLAR	0.001UF	5.00%	50V						
						R7405	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
C7412	1-126-935-11	ELECT	470UF	20.00%	16V	R7407	1-249-411-11	CARBON	330	5%	1/4W
C7413	1-126-935-11	ELECT	470UF	20.00%	16V	R7409	1-216-029-00	RES-CHIP	150	5%	1/10W
C7414	1-107-652-11	ELECT	10UF	20.00%	250V	R7410	1-216-017-91	RES-CHIP	47	5%	1/10W
C7415	1-107-363-91	MYLAR	0.0068UF	10.00%	200V	R7411	1-216-017-91	RES-CHIP	47	5%	1/10W
C7418	1-163-021-91	CERAMIC CHI	P 0.01UF	10.00%	50V						
						R7412	1-216-017-91	RES-CHIP	47	5%	1/10W
C7421	1-163-251-11	CERAMIC CHI	P 100PF	5.00%	50V	R7413	1-249-414-11	CARBON	560	5%	1/4W
•						R7414	1-249-432-11	CARBON	18K	5%	1/4W
	< CONN	ECTOR >				R7415	1-247-739-11	CARBON	100	5%	1/2W
						R7416	1-249-389-11	CARBON	4.7	5%	1/4W
CN7442	* 1-817-044-81	PLUG, CONNE	CTOR 7P								
CN7443	* 1-564-506-11	PLUG, CONNE	CTOR 3P			R7417	1-249-432-11	CARBON	18K	5%	1/4W
CN7444	* 1-770-747-11	CONNECTOR,	BOARD TO BO	ARD 12P		R7418	1-249-414-11	CARBON	560	5%	1/4W
						R7419	1-249-421-11	CARBON	2.2K	5%	1/4W
	< DIOD	E >				R7420	1-249-421-11	CARBON	2.2K	5%	1/4W
						R7421	1-249-389-11	CARBON	4.7	5%	1/4W
D7400	8-719-991-33	DIODE 1SS13	3T-77								
D7401	8-719-991-33	DIODE 1SS13	3 <b>T</b> -77			R7422	1-249-405-11	CARBON	100	5%	1/4W
D7402	1-535-303-00	LEAD, JUMPE	R (5.0MM)			R7423	1-215-915-11	METAL OXIDE	470	5%	3W
D7403	8-719-991-33	DIODE 1SS13	3 <b>T</b> -77			R7427	1-216-025-11	RES-CHIP	100	5%	1/10W
D7404	8-719-991-33	DIODE 1SS13	3T-77			R7428	1-216-033-00	RES-CHIP	220	5%	1/10W
						R7429	1-216-033-00	RES-CHIP	220	5%	1/10W
D7405	8-719-924-11	DIODE MTZJ-				R7432	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
D7406	8-719-924-11	DIODE MIZO-	1-11-22			R7433	1-249-395-11	CARBON	15	5%	1/4W
	4 mann	TOTE DEAD >				R7434	1-249-395-11	CARBON	15	5%	1/4W
	< PERK	ITE BEAD >				R7435	1-216-033-00	RES-CHIP	220	5%	1/10W
	1 525 202 00	LEAD, JUMPE	D /5 0MM)			R7436	1-216-049-11	RES-CHIP	1K	5%	1/10W
FB7400	1-535-303-00	LEAD, JUMPE				K/450	1 210 045 11			••	_,
FB7401	1-535-303-00	LEAD, JUMPE	K (3.0mm)								
	< COIL	>									
L7400	1-414-934-21	INDUCTOR	10UH								
L7402	1-414-934-21	INDUCTOR	10UH								
L7403	1-414-934-21	INDUCTOR	10UH								
	< TRAN	SISTOR >									
Q7400	8-729-010-29	TRANSISTOR	MSD601-RST1								
Q7401	8-729-010-29	TRANSISTOR	MSD601-RST1								
Q7402	8-729-010-29	TRANSISTOR	MSD601-RST1								
Z. 202	J 125 VAV 25					I					

REF.NO. PART.NO DESCRIPTION REMARK REF.NO. PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS		
△ 1-571-433-21 SWITCE, PUSE (AC POWER)		
△ 1-823-853-11 CORD, POWER		

↑ 1-823-853-11 CORD, POWER

1-424-855-11 COIL, CHOKE 29MMH

8-598-623-10 TUNER FSS BTP-AC421

↑ 1-453-340-41 TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)

1-529-408-11 SPEAKER (4.2X24CM)

1-910-000-50 WOOFER LS

↑ 8-451-504-31 DEFLECTION YOKE (Y29RSC-5)

1-452-896-11 COIL, NA ROTATION (RT200)

↑ 8-453-021-21 NECK ASSY, (NA-2919-M2)

↑ 1-424-888-11 COIL, DEGAUSSING
↑ 1-251-946-11 CAP ASSY, HIGH-VOLTAGE
↑ 8-735-097-05 PICTURE TURE (M68LNH060X)
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø
1-425-032-00 MAGNET, DISK; 10MM Ø

## **ACCESSORIES AND PACKAGING MATERIALS**

\*4-102-972-01 INDIVIDUAL CARTON

\*4-102-973-01 CUSHION UPPER

\*4-102-974-01 CUSHION LOWER

4-395-957-01 BAG, PROTECTION

2-024-605-11 INSTRUCTION MANUAL (GERMAN/TURKISH/GREEK) (KV-29XL71E)

2-024-605-21 INSTRUCTION MANUAL (ITALIAN) (KV-29XL71E)
2-024-605-31 INSTRUCTION MANUAL (NORWEGIAN/PORTUGUESE/
SWEDISH/FINNISH/SPANISH/DANISH)) (KV-29XL71E)

2-024-605-41 INSTRUCTION MANUAL (HUNGARIAN/CZECH/ENGLISH/POLISH/RUSSIAN/BULGARIAN) (KV-29XL71K)

4-103-137-11 INSTRUCTION MANUAL (GERMAN/TURKISH/GREEK) (KV-29XL70E)

4-103-137-21 INSTRUCTION MANUAL (ITALIAN) (KV-29XL70E)

4-103-137-31 INSTRUCTION MANUAL (NORWEGIAN/PORTUGUESE/ SWEDISH/FINNISH/SPANISH/DANISH) (KV-29XL70E)

4-103-137-41 INSTRUCTION MANUAL (HUNGARIAN/CZECH/ENGLISH/ POLISH/RUSSIAN/BULGARIAN) (KV-29XL70K)

## REMOTE COMMANDER

1-476-700-12 REMOTE COMMANDER (RM-934) (KV-29XL71) 1-478-654-11 REMOTE COMMANDER (RM-944) (KV-29XL70)

# TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I<sup>2</sup>C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

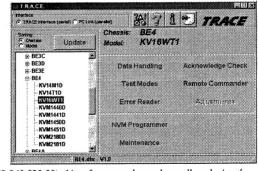
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I2C bus
- Acknowledge check of all I<sup>2</sup>C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing l<sup>2</sup>C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70

TRACE Software (for users of the I<sup>2</sup>C Link interface): 9-948-340-80

TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT\*.

\* WindowsNT only supported with TRACE interface